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TECHNICAL REPORT

77-81-61

FABRIC DESIGN HANDBOOK

by

Louis J. Weiner



January 1972



Clothing & Personal Life Science

Equipment Laboratory

TS-132

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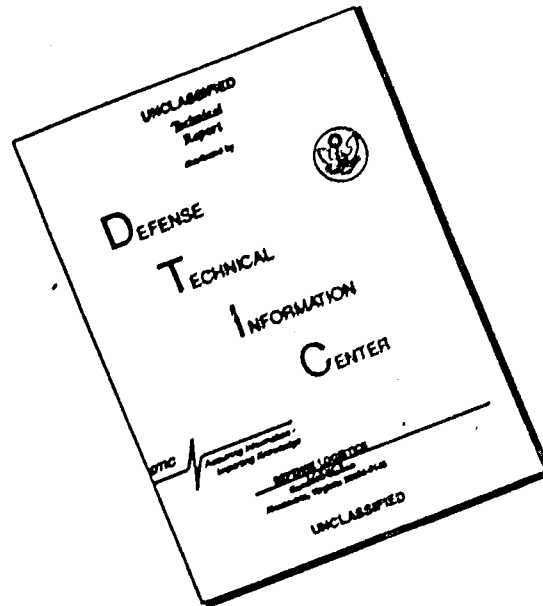
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TECHNICAL REPORT
72-21-CE

FABRIC DESIGN HANDBOOK

by

Louis I. Weiner

Project Reference
1T062105A329

Series: TS-179

January 1972

Clothing and Personal Life Support Equipment Laboratory
U.S. ARMY NATICK LABORATORIES
Natick, Massachusetts

FOREWORD

The design tables contained in this handbook are based upon a simple geometrical model of woven fabric which was proposed by F. T. Peirce more than 30 years ago. A graphical solution of the model for maximum weavable cotton fabrics was developed by Louis Love in 1955. In 1964 the basic equations for maximum weavable cotton fabrics were solved and the information put in easily accessible tabular form by Louis I. Weiner.

In 1966 Mr. Weiner made an important contribution by extending the model of Peirce to synthetic fibers and blends, tabulating numerical solutions to the basic design equations for plain, oxford, three-, four-, and five-harness weaves, and providing an easy means of using the tables for all fiber types as well as blends.

In the present report the generalized solutions of the maximum weavable equations are derived and tabled for a broader spectrum of yarn bulk densities than in the 1966 report. In addition, this revision takes into account the more valid figure for the density of cotton fiber for use in geometric calculations of 1.35 instead of 1.54. To adjust for this difference, yarn bulk densities in terms of fiber densities for single fiber species and blends have been solved for both the 0.59 and 0.67 packing factor assumptions.

While from a theoretical standpoint it should be more correct to use the packing factor of 0.67, much practical experience in the use of these tables in the past indicates that the 0.59 assumption yields more valid results. This probably arises from the fact that conventional looms in use today are not capable, without special attachments, of attaining the power necessary to force in the few extra picks that would be required for the 0.67 packing factor to be used.

This new approach to the design of fabric has now been used for many years, and countless examples have been amassed of the value of the information contained in these tables and the practicality of the approach. When one is confronted with the need to weave an unfamiliar construction, or even a familiar construction from an unfamiliar fiber, or from a blend of fibers, the use of these tables as a guide to design specifications can save much time and money spent in unsuccessful trials.

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UNCLASSIFIED

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified.)

1. ORIGINATING ACTIVITY (Corporate author)		2a. REPORT SECURITY CLASSIFICATION	
U.S. Army Natick Laboratories Natick, Mass.		UNCLASSIFIED	
		2b. GROUP	
3. REPORT TITLE			
Fabric Design Handbook			
4. DESCRIPTIVE NOTES (Type of report and inclusive dates)			
5. AUTHOR(S) (First name, middle initial, last name)			
Louis I. Weiner			
6. REPORT DATE		7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
January 1972		360	6
8a. CONTRACT OR GRANT NO.		8b. ORIGINATOR'S REPORT NUMBER(S)	
b. PROJECT NO. 1T062105A329		72-21-CE (TS-179)	
c.		9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report)	
d.			
10. DISTRIBUTION STATEMENT			
Approved for public release; distribution unlimited.			
11. SUPPLEMENTARY NOTES		12. SPONSORING MILITARY ACTIVITY	
		U.S. Army Natick Laboratories Natick, Mass.	
13. ABSTRACT			
<p>This report contains in tabular form the solutions of the maximum weavability equations for the plain, oxford, 3- and 4-harness twills, and 5-harness sateen in terms of warp and filling cover/factors and yarn number ratio (Beta) for fabrics made from any fiber species and from blends. The tables are set up for yarn bulk densities ranging from 0.54 to 4.6; this includes fibers as light as polyethylene and as heavy as stainless steel. Supplementary tables are provided giving yarn bulk densities (assuming standard packing factors of 0.59 and 0.67) for all of the commercial fibers and for blends of the most important commercial fibers in increments of 5% ranging from 0% to 100% blend composition.</p>			

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UNCLASSIFIED

Security Classification

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14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
Weaving	8					
Equations	8					
Fibers (Natural)	1					
Fibers (Synthetic)	1					
Twills	2					
Sateen	2					
Tables	0					

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ABSTRACT

This report contains in tabular form the solutions of the maximum weavability equations for the plain, oxford, 3- and 4-harness twills, and 5-harness sateen in terms of warp and filling cover factors and yarn number ratio (Beta) for fabrics made from any fiber species and from blends. The tables are set up for yarn bulk densities ranging from 0.54 to 4.6; this includes fibers as light as polyethylene and as heavy as stainless steel. Supplementary tables are provided giving yarn bulk densities (assuming standard packing factors of 0.59 and 0.67) for all of the commercial fibers and for blends of the most important commercial fibers in increments of 5% ranging from 0% to 100% blend composition.

TABLES OF SOLUTIONS OF EQUATIONS FOR MAXIMUM WEAVABILITY
FABRICS MADE FROM SINGLE FIBER SPECIES AND BLENDS

1. Purpose and Scope

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a. Purpose

The tables in this report are presented to facilitate the designing of high-tensure or maximum-weavable fabrics. Maximum-weavable fabrics are the largest class of functional fabrics used by industry and the military. Among many weaves they include: ducks, poplins, wind-resistant twills and satens, airplane and balloon cloths, and linings. In designing maximum-weavable fabrics it is always of concern to the designer to know whether his fabric is practical in terms of the capacity of the loom to put in the necessary picks.

The purpose of these tables is to eliminate the need for direct computation or for graphical techniques previously used for obtaining the solution of maximum weavability problems. For the first time, the tables provide the solutions to the maximum weavability equations for fabrics made from any type of fiber or from blends. These tables augment those published in Textile Series Report No. 128 (1), which can be used only for cotton fabrics.

b. Scope

This report contains in tabular form the solution of the equations for maximum weavability fabrics for the plain, oxford, 3- and 4-harness twills, and 5-harness saten for yarn bulk densities equivalent to polyethylene on the low side and to stainless steel on the high side and including all the commercial textile fibers and blends of the most common textile fibers in increments of 5% blend composition.

The maximum weavability tables (Table (II) in this report provide solutions over a warp cover factor range of from 8 to 62 inclusive (on a sliding scale depending upon yarn bulk density), at intervals of 1, and over a Beta factor range of from 0.5 to 2.0 at intervals of 0.1. Where design data are given in terms of yards per inch and warp or filling yarn number, cover factors and Beta factors may be obtained from tables in Textile Series Report No. 128 (1) or computed from equations (4), (5) or (6) given in the tables.

In addition, two tables are presented which provide a means of obtaining the yarn bulk density when this information is not otherwise available. One of these tables (Table I) gives the standard fiber density for every commercial textile fiber and the equivalent yarn bulk

densities computed on the assumption of packing factors of 0.59 and 0.67. In the absence of experimental information on the exact packing factor the value of 0.59 should be used. Table I may also be used for any experimental fiber having a fiber density equivalent to that of a given commercial fiber. The second of these tables (Table II) gives the yarn bulk densities of blends of the most important of the commercial fibers. The blends are tabled in 5% increments from 0% to 100% blend composition.

2. Theoretical Background and Previous Techniques

The findings of Peirce have been considered basic in the design and development of fabric structures. The equations of Peirce (2) for the plain weaves were published in graphical form by Painter (3), and also in nomographic form, by Backer, Adams and Schwarz (4). Finally, Love (5) extended Peirce's equations to weaves other than the plain, and developed a series of graphs to simplify the prediction of construction parameters of maximum weavability fabrics. Weiner and Johnston (1) solved and tabled the Love equations for a range of cover factors from 10 to 32 and over a Beta factor range from 0.5 to 2.0.

3. Computation and Organization of the Tables

a. Yarn Bulk Density Table for Fibers (Table I)

Ideally it would be desirable to know the exact bulk density of yarns comprising textile fabrics, in order to obtain the maximum design accuracy from the maximum weavability tables in this report. It is difficult, but not impossible to obtain a fair approximation of yarn bulk density. The weight of a given length of yarn may be obtained with considerable precision, as can the length of yarn itself. However, because of the inherent compressibility and "hairiness" of many yarns, it is difficult to obtain a realistic measurement of yarn diameter (or yarn area) which is needed to compute the bulk density. Despite the difficulties, many methods have been used with reasonable success to obtain such measurements, including microscopic, scriplane, thickness gauge and Peirce's roving twist technique.

Most workers (5, 6) conventionally follow Peirce's recommendations for cotton fabrics of .909 gm/cm³ as a standard yarn bulk density for design work.

Since the density of the cellulose in the cotton fiber is 1.54, the degree of "packing" was considered to be the ratio of the yarn bulk density to the fiber density, or:

$$\frac{0.909}{1.54} = 0.59$$

This value of 0.59, which is called the packing factor or packing coefficient, had been standardized (6) for fibers other than cotton and had been used to compute the yarn bulk density from the fiber density of any fiber. Work done at the Shirley Institute, in which the volume of the lumen of the cotton fiber is taken into consideration, indicates that the density of the cotton fiber for geometrical calculations should be 1.35. Using this revised value the computation for packing factor would be:

$$\frac{0.209}{1.35} = 0.67 \text{ (approximately 0.67)}$$

Despite these findings, past experience in the use of these tables has indicated that the packing factor value of 0.59 provides the most reasonable estimates for fabric design. In short float weaves, using the packing factor of 0.59 appears to yield a fairly absolute maximum in tightness. For the longer float weaves, the 0.59 packing factor sometimes yields designs that may be just below the maximum. However, for all practical purposes, with the state of technology of loom design, as it exists today, the best results in using these tables can be obtained in assuming a 0.59 packing factor. Supplementary tables for the 0.67 packing factor are included for reference purposes and in the event that future developments may lead to tighter fabric constructions than are practical today in weaving technology.

Yarn bulk densities for different fiber types may be computed as the product of the fiber density by the packing factor.

$$D_y = D_f \times PF \quad (1)$$

For nylon (D_f of 1.14), for example, if we assume a packing factor of 0.59 we get as the yarn bulk density:

$$1.14 \times .59 = .67$$

The yarn bulk density table was prepared in this manner. Thus, the first step to take in designing a maximum wearable fabric, from say, Acrilan, in the absence of experimental data on yarn bulk density, would be to look up its bulk density in Table I.

b. Yarn Bulk Density Table for Blends (Table II)

Table II provides for blends of the most common fibers the same information contained in Table I for single fiber yarns. Blend proportions are from 0% to 100% in 5% increments.

The values in Table II were obtained from the solution of the equation:

$$D_{ey} = \frac{0.59}{\frac{A}{D_{ef1}} + \frac{(1-A)}{D_{ef2}}} \quad \left[\begin{array}{l} \text{Yarn bulk density of} \\ \text{blends for computing} \\ \text{Table II} \end{array} \right] \quad (2)$$

Where D_{ey} = the bulk density of the blended yarn

D_{ef1} = fiber density of fiber #1

D_{ef2} = fiber density of fiber #2

A = percentage of blended fiber #1
expressed as a decimal

A sample calculation for a blend of 25% nylon and 75% cotton would be as follows:

$$D_{ey} = \frac{0.59}{\frac{.25}{1.14} + \frac{(1-.25)}{1.54}} = .84$$

In Table II the fiber density of one of the component fibers is given at the head of the first column with the percentage of that fiber (from 0% to 100%) given below it. The headings of the following eight columns give the fiber densities of the other component fibers, and the values in the body of the table are yarn bulk densities. For the problem solved above by Equation (2) turn to the 0.59 section of Table II showing fiber density of 1.14 (for nylon) in first column: drop down to 25 (the percentage of nylon in blend) in first column, go across this row (25) to value under column headed 1.54 (fiber density of cotton): this will give bulk density of 0.84.

If necessary, linear interpolation may be used for other blend percentages or fiber densities.

c. Maximum Weavability Table (Table III)

Table III ("Maximum filling cover factor in terms of warp cover factor and Beta factor") shows the maximum filling cover factor (K_2) that is theoretically obtainable for a given combination of warp cover factor and Beta factor. The filling cover factors for the various yarn bulk densities and weaves were obtained by the solutions of the following equations, the derivation of which is given in the Appendix.

[Equations solved in setting up Table III]

(3)

PLAIN WEAVE
M = 1

$$\sqrt{1 - \left[\frac{29.2\sqrt{De}}{(1+\beta)K_1} \right]^2} + \sqrt{1 - \left[\frac{29.2\sqrt{De}\beta}{(1+\beta)K_2} \right]^2} = 1$$

THREE HARNESS
WEAVES
M = 1.5

$$\sqrt{1 - \left[\frac{M \left(\frac{31.4\sqrt{De}}{K_1} - 1 \right) + 1.08}{1.08(1+\beta)} \right]^2} + \sqrt{1 - \left[\frac{\left(M \left(\frac{31.4\sqrt{De}}{K_2} - 1 \right) + 1.08 \right) \beta}{1.08(1+\beta)} \right]^2} = 1$$

FOUR HARNESS
WEAVES
M = 2.0

$$\sqrt{1 - \left[\frac{M \left(\frac{32.7\sqrt{De}}{K_1} - 1 \right) + 1.12}{1.12(1+\beta)} \right]^2} + \sqrt{1 - \left[\frac{\left(M \left(\frac{32.7\sqrt{De}}{K_2} - 1 \right) + 1.12 \right) \beta}{1.12(1+\beta)} \right]^2} = 1$$

FIVE HARNESS
WEAVES
M = 2.5

$$\sqrt{1 - \left[\frac{M \left(\frac{33.6\sqrt{De}}{K_1} - 1 \right) + 1.15}{1.15(1+\beta)} \right]^2} + \sqrt{1 - \left[\frac{\left(M \left(\frac{33.6\sqrt{De}}{K_2} - 1 \right) + 1.15 \right) \beta}{1.15(1+\beta)} \right]^2} = 1$$

OXFORD WEAVE
M₁ = 2.0
M₂ = 1.0

$$\sqrt{1 - \left[\frac{M_1 \left(\frac{32.7\sqrt{De}}{K_1} - 1 \right) + 1.12}{1.12(1+\beta)} \right]^2} + \sqrt{1 - \left[\frac{29.2\sqrt{De}\beta}{(1+\beta)K_2} \right]^2} = 1$$

$$\text{where } M = \frac{\text{Number of yarns per repeat of weave}}{\text{Number of interlacings per repeat of weave}}$$

Cover factors* or Beta factor may be computed from the following equations:

$$K_1 = \frac{n_1}{\sqrt{N_1}} \quad \text{[Warp cover factor equation]} \quad (4)$$

where K_1 is warp cover factor
 n_1 is warp texture of yarns per inch
 N_1 is warp yarn number or "count"

$$K_2 = \frac{n_2}{\sqrt{N_2}} \quad \text{[Filling cover factor equation]} \quad (5)$$

where K_2 is filling cover factor
 n_2 is filling texture of yarns per inch
 N_2 is filling yarn number or "count"

$$B = \sqrt{\frac{N_1}{N_2}} \quad \text{[Beta factor equation]} \quad (6)$$

where B is Beta factor or yarn balance
 N_1 is warp yarn number
 N_2 is filling yarn number

* Throughout this report subscript 1 refers to warp and subscript 2 refers to filling.

If yarns are numbered in systems other than the "cotton" system, they should be converted to the cotton system in order to use Table III.

In Table III warp cover factors range from 8 to 62 (depending on yarn density), and Beta factors from 0.5 to 2.0. In order to simplify the programming and print-out, non-valid values (because of K_1 being too low) are indicated by zeros ("0") in the table. This does not mean that the numerical value of K_2 is zero. The zero should be read as a blank space.

For each of the yarn bulk densities, ranging from .54 to 4.6, there is a section for each of the five weave types. The maximum filling cover factor values are given to one decimal place, which is quite adequate precision for textile design work. Interpolation may be used for fractional values of warp cover factor.

4. Use of Tables I and II

Tables I and II merely provide the essential value of yarn bulk density which indicates the correct location in Table III to enter (each page of Table III has yarn bulk density at the top) to obtain the solution appropriate to the fiber type or blend of which the fabric is composed.

5. How to Use Table III

Table III is the one from which the usefulness of this report derives. Table III is presented primarily as the solution of the equation for filling cover factor (see paragraph 3c) when warp cover factor, Beta factor and yarn bulk density are known. (It can also be read for a solution when any three elements are given or required, to find the fourth.)

Perhaps the easiest way to visualize the relationship of these four elements of Table III and how they are obtained is by considering the following tabulation.

Knowledge of any three of the four "elements" listed will provide the necessary information for obtaining the fourth from Table III. However, in the conventional design of fabrics the yarn bulk density, warp cover factor, and Beta factor are usually known first or computed and the filling cover factor is the unknown factor which is usually

<u>Element of Table III</u>	<u>Obtainable from</u>	<u>If you have</u>
Yarn Bulk Density (D_e)	1. Actual physical measurement	
	or	
	2. Table I (for single fiber)	Fiber name or fiber density
	or	
	3. Table II (for blends)	Blend composition
Warp Cover Factor (K_1)	1. Equation 4 ($n_1/\sqrt{N_1}$)	
	or	W yarn number
	2. TSR #128 (Table I)*	and W texture
Filling Cover Factor (K_2)	1. Equation 5 ($n_2/\sqrt{N_2}$)	
	or	F yarn number
	2. TSR #128 (Table I)*	and F texture
Beta Factor (B)	1. Equation 6 ($\sqrt{N_1/N_2}$)	
	or	W yarn number
	2. TSR #128 (Table II)*	and F yarn number

* Textile Series Report No. 128 ⁷reference (1) provides the solution of the cover factor equations (4) and (5) and the Beta factor equation (6) for a wide range of yarn numbers and textures.

The textile designer normally has access to the information in the far right column above; this enables him to make the preliminary calculations or to check in Tables I and II to obtain the yarn bulk density to enter Table III. Thus, if he is looking for the greatest number of filling yarns of a given size which can be used for a given weave type, he will know:

- (1) the fiber density or blend composition which will then give him the yarn bulk density
- (2) the warp yarn number and warp texture which will provide the warp cover factor
- (3) the filling yarn number, which with the warp yarn number will provide the Beta factor

Using the above three items, he can secure from Table III the maximum filling cover factor.

The maximum filling texture can be obtained by solution of the following equation:

$$n_2 = K_2 \times \sqrt{N_2} \quad \text{[Maximum filling texture equation]} \quad (7)$$

where n_2 is filling texture, or yarns per inch
 K_2 is filling cover factor
 N_2 is filling yarn number

Maximum filling texture can also be obtained from TSR No. 128.

In addition to thus obtaining the requirements for maximum weavable constructions, it is possible to find what percentage of maximum weavability any construction is. That is, divide the actual filling cover factor by the theoretical filling cover factor. This percentage may be expressed on the basis of either filling cover factor or filling texture.

Also, given a particular construction, the textile designer can determine its practicality. That is, he can determine from the table whether or not it is weavable, without trial weavings.

Given a particular construction, the fabric designer can, by using Table III, determine whether it can be tightened to any extent.

Finally, given certain filling parameters, such as yarn size and texture, it is possible to project certain combinations of warp sizes and textures.

6. Examples of Use of Tables

Since Tables I and II are incidental to the use of Table III, they will not be discussed separately but as an integral part of the discussion of each problem presented in this section. However, it may be well to provide some general information on the role of yarn bulk density before proceeding with specific examples.

Ideally, it would be desirable to know the exact yarn bulk density of the yarns going into the fabric, by means of microscopic or some other type of objective measurement rather than using the approximations of Tables I and II. Where a given yarn is used in many different constructions it may be advisable to go through the mechanics of measuring the actual yarn density. It is recognized that measuring errors may in some instances be as large as estimating errors because of the difficulty in getting a realistic indication of yarn diameter. However, it is important to be aware of differences if they do exist, in the event that actual loom experience yields results that differ somewhat from the predictions of Table III.

Despite the advantages that may accrue from actual yarn density measurements, the busy designer will probably rely more on Tables I and II to obtain the necessary values for entering Table III; the problems below will be based upon this assumption.

a. Design of Fabrics Made from One Type of Fiber Only

Problems of this type involve the design of a maximum weavable fabric which is made wholly from one type of fiber, such as Arnel or Orlon.

Given: fiber type, filling yarn number, warp yarn number, texture and weave

To find: number of picks for maximum weavable construction

Problem: What are the maximum number of picks of yarn number 19/1 cotton count Orlon that can be woven into a poplin having 106 ends of 40/2 Orlon.

Solution:

Step 1 Find the yarn bulk density of Orlon in Table I; it is 0.67 for a P.F. of 0.59 and 0.77 for a P.F. of 0.67.

Solution (cont'd)

- Step 2 Find warp cover factor for the 106 ends of 40/2 yarn. First convert 40/2 to 20/1 (cover factor computation is based upon singles equivalents). Obtain warp cover factor using equation (4) where $K_1 = n_1/\sqrt{N_1}$, substituting: $106/\sqrt{20} = 23.702$. Or look it up on page 94 of TSR No. 128.
- Step 3 Find Beta factor for yarns using equation (6)
 $\text{Beta} = \sqrt{N_1/N_2} = \sqrt{20/19} = 1.026$. Or look it up on page 138 of TSR No. 128.
- Step 4 Find maximum filling cover factor. Turn to Table III for plain weave fabrics (poplin is a plain weave) and yarn bulk densities of 0.67 and 0.77. For 0.67 the intersection of "Beta factor" (top column) of 1.0 (closest value to 1.026) and row 24 "warp cover factor" (far left) gives "maximum filling cover factor" of 12.1.* For 0.77 the same intersection gives a "maximum filling cover factor" of 13.0.
- Step 5 Compute maximum filling texture using equation (7):
 $n_2 = K_2 \sqrt{N_2}$, substituting: $12.1 \sqrt{19} = 53$ or $13.0 \sqrt{19} = 57$. Or look it up on page 95 of TSR No. 128.

As mentioned previously, although theoretically it would be more appropriate to use the yarn bulk density of 0.77 corresponding to a packing factor of 0.67, practical considerations based upon past experience indicate that for this fabric the results obtained from using a yarn bulk density of 0.67 corresponding to a packing factor of 0.59 would be more correct. Accordingly, all of the other illustrations in this section will be based upon the packing factor of 0.59. In the longer float weaves (4 and 5 harness) it is sometimes possible to obtain slightly higher filling cover factors than would be indicated by the packing factor of 0.59. Experience provides a basis for making the slight adjustments which may be necessary in these cases.

* If it is desired to obtain increased precision, interpolation may be used with the fractional Beta factor and the fractional cover factor obtained from the computations in Steps 2 and 3, respectively. In this particular problem, the interpolation would be of no value with respect to warp cover factor, since the equivalent filling cover factor is identical for warp cover factors of 23 and 24. Interpolation for the Beta value of 1.026 would increase the maximum filling cover factor to 12.23 or 12.2 in three significant figures. Accordingly, it is suggested that interpolation be ignored for first approximations.

b. Design of Fabrics Made from A Blend of Two Fibers

This problem concerns the design of maximum weavable fabrics made from an intimate blend of two fibers such as nylon and cotton or polyester and cotton.

Given: fiber types, blend composition, filling yarn number, warp yarn number, warp texture and weave

To find: number of picks for maximum weavable construction

Problem: How many picks/inch must be used in a fabric having 150 ends of 36^s yarn to obtain maximum weavability. Solve for both 36^s and 25^s filling yarns; and for plain and 3-harness weaves. Assume yarns are blended and contain 25% of nylon and 75% of cotton.

Step 1 Determine density of blended yarn from Table II. Go down column one (headed "fib. den. = 1.14," i.e., fiber density of nylon) to row 25 (% of nylon in yarn). Move across row to value under column headed 1.54 (density of cotton); this gives 0.84. Thus, the yarn density of the blended yarn is .84.

Step 2 Compute cover factor of warp, using Equation (4).

$$K_1 = n_1 / \sqrt{N_1} = 150 / \sqrt{36} = 25$$

Or look it up in TSR No. 128.

Step 3 Compute Beta factor for both yarn combinations, using Equation (6)

$$B = \sqrt{N_1 / N_2} = \sqrt{36 / 25} = 1.2$$

Or look it up in TSR No. 128.

Step 4 Go to section of Table III covering Plain Weaves and yarn bulk density of .84

For warp cover factor of 25 and Beta of 1,
the maximum filling cover factor is 13.5.

For warp cover factor of 25 and Beta of 1.2,
the maximum filling cover factor is 14.7.

Problem (cont'd)

Step 5 Go to section of Table III covering 3-harness weaves and yarn bulk density of .81.

For warp cover factor of 25 and Beta of 1,
the maximum filling cover factor is 17.0.

For warp cover factor of 25 and Beta of 1.2,
the maximum filling cover factor is 18.2.

Step 6 Compute maximum filling texture (picks per inch)
from cover factor, using equation (7), $n_2 = K_2 \sqrt{N_2}$.
Or look it up in TSP No. 128.

Values of n_2 are given in the following tabulation:

	<u>Plain Weave</u>	<u>3-Harness Weave</u>
36^S	$n_2 = 13.5 \sqrt{36}$ = 81	$n_2 = 17.0 \sqrt{36}$ = 102
25^S	$n_2 = 14.7 \sqrt{25}$ = 74	$n_2 = 18.2 \sqrt{25}$ = 91

Thus, for the plain weave, as we go to the coarser filling yarn (36^S to 25^S) there are fewer picks that can be woven into the fabric for maximum weavability (81 vs. 74). The same holds true for the 3-harness weave. We can weave 102 picks of the 36^S yarn, but only 91 of the 25^S yarn.

However, in going from the plain weave to the 3-harness weave it takes more picks to fill the weave. Thus for the 36^S yarn we must increase the number of picks from 81 to 102; and for the 25^S yarn we must increase the number of picks from 74 to 91.

c. To Determine Percentage of Maximum Weavability

Problem:

- (1) A Type III wind resistant all-cotton oxford has a specified texture of 136 by 66. If a 40/2 warp yarn is available what percent of maximum weavability will be obtained if we use a 12/1 filling?

Problem: (cont'd)

- (2) If we use the same "size" warp and filling yarns, but made of a blend of 50% Dacron and 50% cotton, what will be the percent of maximum weavability?

Solution:

For all-cotton fabric

First convert 40/2 to 20/1

- Step 1 Find yarn bulk density of cotton in Table I as .91.
- Step 2 Find warp cover factor by using equation (4) or from TSR No. 128; it is 30.4.
- Step 3 Find filling cover factor by using equation (5) or from TSR No. 128; it is 13.3.
- Step 4 Compute Beta factor, using equation (6) or obtain from TSR No. 128; it is 1.3.
- Step 5 Find maximum possible filling cover factor in Table III for oxford weaves and yarn bulk densities of .91. This value is 15.9.
- Step 6 To obtain percent maximum weavability:
- Divide actual filling cover factor (13.3) by computed maximum filling cover factor (15.9) to obtain 83.6 as percent of maximum weavability.

Solution:

For Dacron-cotton blend

- Step 1 Find yarn bulk density of a 50% Dacron - 50% cotton blend from Table II as .86.
- Step 2 Find warp cover factor of 30.4 as above.
- Step 3 Find filling cover factor of 13.3 as above.
- Step 4 Find Beta factor of 1.3 as above.

Solutions (cont'd)

Step 5 Find maximum possible filling cover factor in Table III for oxford weaves and yarn bulk densities of .86. This value is 15.4.

Step 6 To obtain percent maximum weavability:

Divide actual filling cover factor (13.3) by computed maximum filling cover factor (15.4) to obtain 86.4 as percent of maximum weavability.

Thus, even though the cotton yarns and the Dacron/cotton blended yarns used in this example were both the same "size" in terms of yarn number (which is a measure of linear density), actually the blended yarn has a larger diameter because of the lower density of the Dacron constituent. Thus, keeping yarn numbers and textures constant, the blended yarns will produce a fabric with a higher percentage of maximum weavability.

d. To Determine Weavability or Practicality of A Given Loom Construction

Problem: Is a sateen fabric weavable if it has 129 ends of 31/1 polypropylene yarn in the warp and 94 picks of 14/1 polypropylene yarn in the filling?

Solution:

Step 1 Find warp and filling cover factors: 23.2 and 25.1 respectively.

Step 2 Find Beta factors: 1.5.

Step 3 Find maximum filling cover factor in section of Table III for 5-harness weaves and for polypropylene yarn bulk density of .54. This is 19.0.

Since the cover factor desired (25) is larger than the theoretical maximum (19), this fabric would not be weavable. It is interesting to note that a fabric with the same construction characteristics as this could be woven from cotton yarns. Thus, it is erroneous to anticipate that the fiber composition of a fabric can always be changed without also changing the texture and/or the yarn sizes.

7. Basic Assumptions and Limitations of the Tables

Three assumptions were made in developing the equations that led to the formulation of these tables:

- a. The yarn compression in a fabric woven to maximum tightness produces a change in the shape of the yarn section but does not alter the fiber packing density.
- b. Complete flattening takes place in that half of the yarn that is in contact with a neighboring yarn under a single float (see Appendix).
- c. The packing coefficient of yarns made from all fibers and blends is 0.59.

If yarns are numbered in systems other than the "cotton" system, they should be converted to the cotton system in order to use these tables.

For all practical purposes, these assumptions produce only minimal errors and thus the tables are suitable for first-order approximations in fabric design. For designers who work with a few types of fibers or blends it might be useful to check the yarn bulk densities of the yarns they work with, since twist and other factors may alter the yarn bulk density values given in Tables I and II. If actual yarn bulk density values are available, then the only important limitations on the validity of these tables and the equations from which they were derived are the first two assumptions (a and b) listed above.

8. References

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DERIVATION OF THE GENERAL MAXIMUM WEAVABILITY EQUATIONS FOR
THE PLAIN, TWILL AND SATEEN WEAVES FOR YARNS OF VARYING
BULK DENSITIES

INTRODUCTION

The steps leading to the derivation of the general maximum weavability equations are presented in five sections of this report titled as follows:

- I. Derivation of K_0 (procedure of Ball¹).
- II. Derivation of the Maximum Weavability Equation for the Plain Weave (procedure of Peirce²).
- III. Derivation of the Equations for Local Spacing in Twills and Sateens.
- IV. Derivation of K_a (max) and Maximum Weavability Equations for Other Weave Types (procedure of Love³).
- V. Derivation of the Generalized Maximum Weavability Equations for All Fiber Species and Blends.

APPENDIX*

DERIVATION OF THE GENERAL MAXIMUM WEAVABILITY EQUATIONS FOR THE
PLAIN, TWILL AND SATEEN WEAVES FOR YARNS OF VARYING BULK DENSITIES

Originally published as

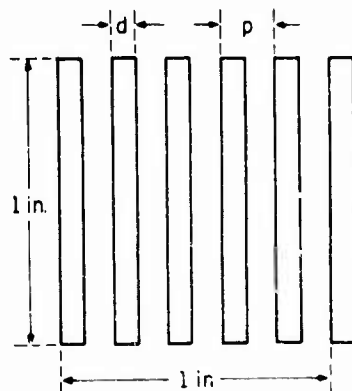
Material Examination Reports No. 8316 (9 Sep 1965) and No. 8320
(10 Mar 1966) by Louis I. Weiner, U. S. Army Natick Laboratories,
Natick, Mass. 01701.

I. DERIVATION OF K_0^*

It is customary for textile designers to express the "cover" of a woven textile fabric by means of a computed "cover factor" which is designated by the letter "K". K is derived from fractional coverage as follows:

Fractional Coverage ($\frac{d}{p}$):

The cover of a fabric can be expressed as "fractional coverage" which is the ratio of the area "covered" by yarns to the total area of the fabric. For a given fabric direction (warp or filling), fractional coverage may be visualized as the projected area divided by the total area as shown below:



d = diameter of each yarn in inches

p = inches/yarn (this is called the "spacing" and includes a "space" and a "yarn diameter")

n = yarns/inch

For 1 in² of fabric, the fractional coverage of either the warp or filling is:

$$\text{fractional coverage} = \frac{\text{yarns/inch} \times d'' \times 1''}{1 \text{ in}^2} = \frac{nd \times 1}{1}$$

$$\text{numerically fractional coverage} = \text{yarns/inch} \times d'' = nd$$

*Throughout this section the derivations are predicated on the assumption that cotton fiber has a density of 1.54 and that the yarn bulk density is 0.909 based upon a packing factor of 0.59. Exactly the same results would be obtained if the cotton fiber density of 1.35 were used with a packing factor of 0.67, which would still yield a yarn bulk density value of 0.909, which is the important parameter used in these calculations.

$$\text{yards/length} = \frac{1}{\text{inches/yarn}} \text{ or } n = \frac{1}{p} \quad (1)$$

$$\text{therefore } nd = \frac{d}{p} \quad (2)$$

The conventional expression for fractional coverage is $\frac{d}{p}$ which is dimensionless. (3)

Because of the difficulties encountered in measuring the diameter of yarns it has become customary for textile technologists to use yarn number (N)*, which is easily calculable, in expressions where yarn diameter (d) is normally required.

Cover Factor (K):

Yarn diameter (d) varies as the reciprocal of the square root of yarn number (N) for the indirect system (which is the system used almost exclusively in this country for staple yarns).

$$\text{Thus } d \propto \frac{1}{\sqrt{N}} \quad (4)$$

$$\text{therefore } \frac{d}{p} \propto \frac{\frac{1}{\sqrt{N}}}{p} \quad (5)$$

From Equation (1)

$$p = \frac{1}{n} \quad \text{where } n = \text{yarns/inch}$$

$$\text{therefore fractional coverage} = (\text{constant}) \frac{n}{\sqrt{N}} \quad (6)$$

* N = number of 840 yard hanks per pound or $N = \frac{1}{\text{lb}} \times 840 \text{ yds}$
where 1 is yds and w is lbs

$$\text{and } \frac{\text{fractional coverage}}{\text{(constant)}} = \frac{n}{\sqrt{N}} \quad (7)$$

The ratio on the left above is designated as cover factor or K , and thus:

$$K = \frac{n}{\sqrt{N}} \quad (8)$$

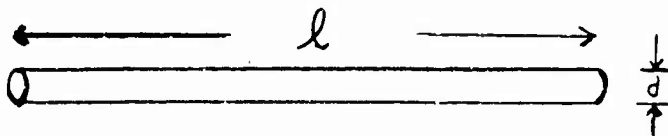
The maximum value of K (designated as K_0) is obtained when $d/p = 1$, in other words when the projected area of the yarns in the fabric equals the total area. However, as will be seen later in the derivation of the equations for maximum weavability, when compression of the yarns under the float takes place in tightly woven structures, it is possible to get values of K exceeding K_0 . The development of the maximum weavability equations is based on values of K which exceed K_0 . The larger value is designated as K_a (max). At this stage of our development, however, K_0 can be considered to be the maximum practical cover factor and much valuable design and development work is done utilizing K_0 as a threshold value against which a computed K may be compared.

Yarn Diameter (d):

The value of K_0 will vary depending upon the specific volume or density of the yarns for which it is used. Therefore, it is necessary to derive the relationship between diameter (d) and yarn Number (N) as a basis of computing a range of K_0 values. An assumption which has been made in working with this relationship is that cotton yarns have a specific volume of 1.1. If this assumption is accepted, then values of K_0 for a wide variety of fiber types and blends may be computed, if the packing factor or packing coefficient for yarns made from these fibers is considered as identical to that of cotton yarn. More will be said about this later.

The relationship between diameter and yarn number may be deduced as follows:

Consider a textile yarn as an incompressible cylinder of length " ℓ " and diameter " d "



$$\text{The volume of this cylinder} = \frac{\pi d^2 \ell}{4} \quad (9)$$

$$\text{The weight of the cylinder} = \frac{\pi d^2 \ell D_e}{4} \quad \text{Where } D_e \text{ is density of yarn} \quad (10)$$

In the metric system the weight in grams of yarn would be

$$W = \frac{\pi d^2 \ell D_e}{4} \quad \begin{array}{l} \ell \text{ in cm} \\ D_e \text{ in gm/cm}^3 \end{array} \quad (11)$$

Keeping D_e in the metric system, which is conventional, but converting W , ℓ , and d to pounds, yards and inches respectively, which are conventional for textile yarns, the following results:

$$\begin{array}{ll} \text{gm} = \frac{\pi \text{ cm}^2 \text{ cm } D_e}{4} & \text{lbs} \times 454.6 = \text{gm} \\ & \text{in}^2 \times 2.54^2 = \text{cm}^2 \\ \text{gm} = .785 \text{ cm}^2 \text{ cm } D_e & \text{yds} \times 36 \times 2.54 = \text{cm} \end{array}$$

$$\text{lbs} \times 454.6 = .785 \text{ in}^2 \times 2.54^2 \times \text{yds} \times 36 \times 2.54 D_e \quad (12)$$

$$\begin{array}{ll} V \text{ (lb)} = \frac{.785 \times 2.54^3 \times 36 \times d^2 \ell D_e}{454.6} & \begin{array}{l} d^2 = \text{in}^2 \\ \ell = \text{yds} \\ D_e = \text{gm/cm}^3 \end{array} \end{array} \quad (13)$$

$$W = 1.0189 d^2 \ell D_e \quad (14)$$

$$d^2 = \frac{W}{1.0189 \ell D_e} \quad (15)$$

$$d = \sqrt{\frac{W}{1.0189 \ell D_e}} \quad (16)$$

Divide top and bottom of fraction by W

$$d = \sqrt{\frac{1}{1.0189 \ell / W D_e}} \quad (17)$$

By definition, in the cotton numbering system
where ℓ is in yds and W in lbs and N = Yarn Number

$$\ell / W = 840 N \quad (18)$$

$$d = \sqrt{\frac{1}{840 \times 1.0189 N D_e}} \quad (19)$$

$$d = \sqrt{\frac{.0011684}{N D_e}} \quad (20)$$

$$d = \frac{.0342}{\sqrt{N D_e}} \quad (21)$$

Relationship Between K and d/p:

If we find the general relationship between K and d/p, then K_0 can be determined as the value of K when d/p = 1, in other words, when the fractional coverage is unity or the projected area of the yarns equals the total fabric area.

Recall from equation (8) that:

$$K = \frac{n}{\sqrt{N}}$$

and from equation (1) that:

$$n = \frac{1}{p}$$

therefore

$$K = \frac{1}{p \sqrt{N}} \quad (22)$$

and

$$p = \frac{1}{K \sqrt{N}} \quad (23)$$

From equation (21)

$$d = \frac{.0342}{\sqrt{N} De}$$

therefore

$$\frac{d}{p} = \frac{\frac{.0342}{\sqrt{N} De}}{\frac{1}{K \sqrt{N}}} \quad (24)$$

thus

$$\frac{d}{p} = \frac{.0342 K}{\sqrt{De}} \quad (25)$$

Calculation of K_0 :

By definition when $d/p = 1$

$$K = K_0 \text{ or } \frac{d/p}{1} = \frac{K}{K_0} \quad (26)$$

∴

$$1 = \frac{.0342 K_0}{\sqrt{De}} \quad (27)$$

$$K_0 = \frac{\sqrt{D_s}}{.9342} \text{ or } K_0 = 29.2 \sqrt{D_s} \quad (28)$$

Thus for any yarn, regardless of fiber composition or structure, if we know the yarn density (bulk density) we can compute K_0 , i.e., the "maximum" cover factor corresponding to $d/p = 1$. The problem of determining yarn density is a difficult one and much fabric design as practiced today for cotton fabrics is based upon Peirce's selection of .909 as the bulk density of cotton yarn (.909 is the reciprocal of the specific volume value of 1.1).

$$\text{For cotton then: } K_0 = 29.2 \sqrt{.909} = 27.8 \quad (29)$$

Some workers round this figure off to 28.0

Packing Factor.

It is convenient to relate the density of cotton yarn to the density of cotton fiber. This relationship, expressed as a ratio, is termed the packing coefficient or packing factor.

$$PC = \frac{D_s(\text{yarn})}{D_s(\text{fiber})} \quad (30)$$

$$\text{For cotton: } PC = \frac{.909}{1.54} = .59 \quad (31)$$

It has become conventional for designers working with fibers other than cotton to assume that the packing factor of yarns made from these other fibers is constant at .59. With this assumption it becomes simple to compute the densities of yarns, made from a wide variety of fibers, using equation (30).

$$D_s(\text{yarn}) = PC \times D_s(\text{fiber}) \quad (32)$$

$$= .59 \times D_s(\text{fiber}) \quad (33)$$

Substituting this relationship in equation (28), the following is obtained:

$$K_o = 29.2 \sqrt{D_e \text{ (yarn)}} \quad (34)$$

$$K_o = 29.2 \sqrt{PC \times D_e \text{ (fiber)}} \quad (35)$$

$$K_o = 29.2 \sqrt{.59 D_e \text{ (fiber)}} \quad (36)$$

$$K_o = 22.4 \sqrt{D_e \text{ (fiber)}} \quad (37)$$

K_o values for some typical fiber species are given in the following table:

Fiber	Density of fiber	$\sqrt{D_e \text{ (fiber)}}$	K_o
Nylon	1.14	1.067	24.0
Wool	1.32	1.149	25.8
Dacron	1.37	1.170	26.3
Cotton	1.54	1.241	27.8
Glass	2.54	1.594	35.8

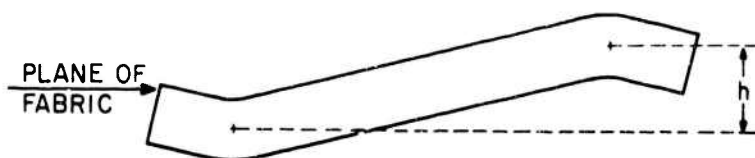
II. DERIVATION OF THE MAXIMUM WEAVABILITY EQUATION FOR THE PLAIN WEAVE

In order to reduce the number of variables required in the solution of the geometry of the plain weave, Peirce introduced the parameter "D" which is the sum of the diameters of the warp and filling yarns.

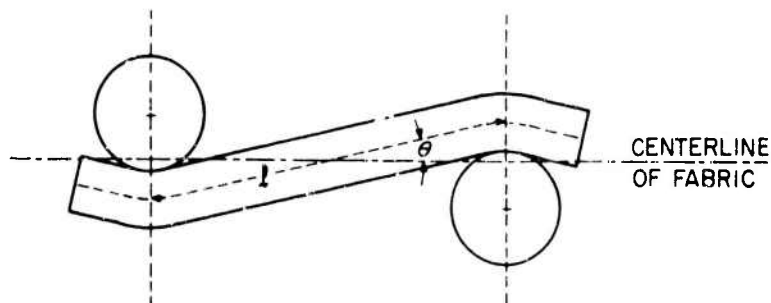
$$\text{Thus } D = d_1 + d_2 \quad \text{where} \quad (38)$$

subscripts 1 and 2 apply to warp and filling respectively.
Other symbols used by Peirce are:

h = maximum displacement of yarn axis measured normal to the cloth as follows:



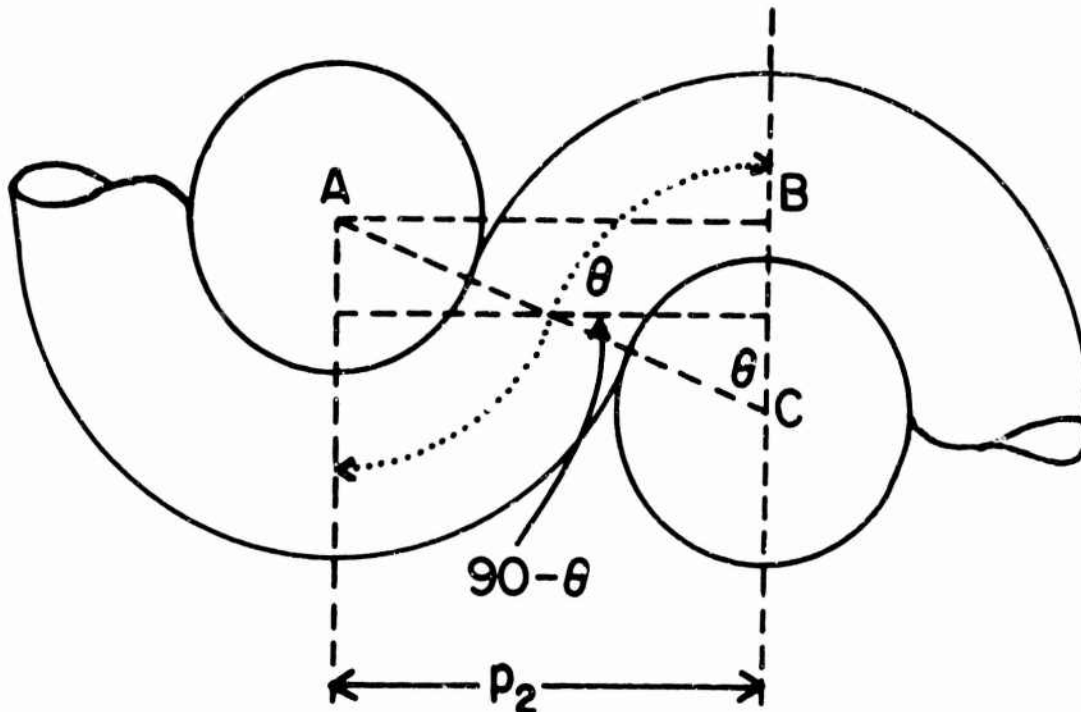
l = length of yarn in a unit cell



θ = angle between yarn axis and plane of cloth
 p , n and d are as used previously in this report

In tight fabric constructions the yarn systems are considered to be jammed. When the warp yarn is jammed, for example, there is no straight portion in the warp yarn and a line joining the centers of the filling yarns is perpendicular to the warp yarn axis at the point of intersection. When this condition prevails, as shown below, both the filling yarn spacing p_2 and the filling yarn displacement h_2 are functions of the angle (θ) between the warp yarn axis and the plane of the cloth.*

*No yarn compression is assumed in these preliminary derivations.



Construction for Filling Yarn Spacing

p_2 is the spacing of the filling yarns and thus is equal to the distance between the vertical lines above: AB

D is the sum of the diameters of the warp and filling yarns which is the length of the diagonal line above: AC

From the geometry of the triangle ABC:

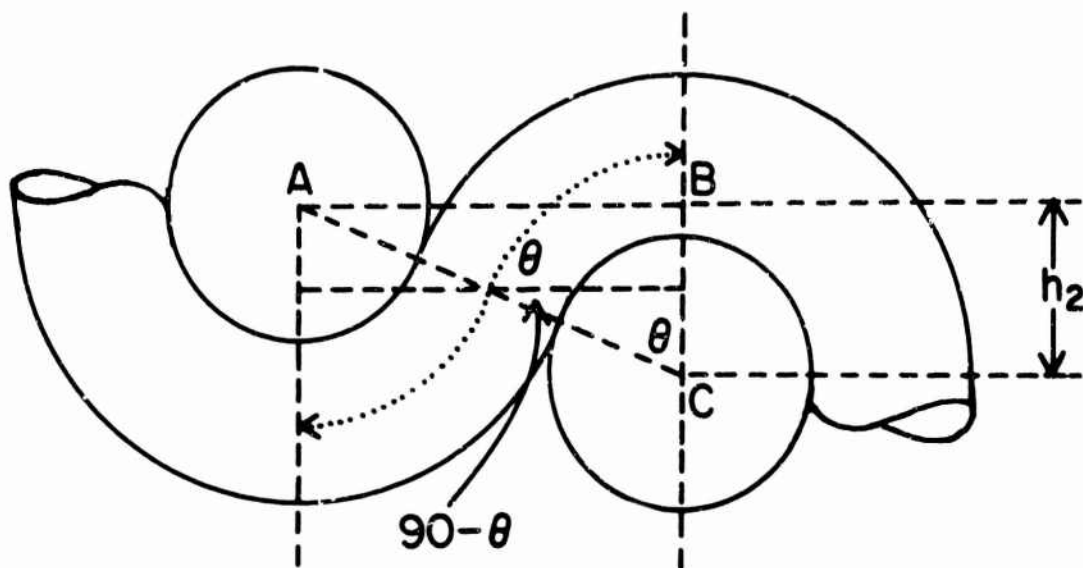
$$\sin \theta = \frac{AB}{AC} = \frac{p_2}{D} \quad (39)$$

$$\text{and } p_2 = D \sin \theta \quad (40)$$

For Filling Yarn Displacement:

h_2 is the displacement of the filling yarns, which is the distance BC below.

D is the sum of the diameters: AC below.



Construction for Filling Yarn Displacement

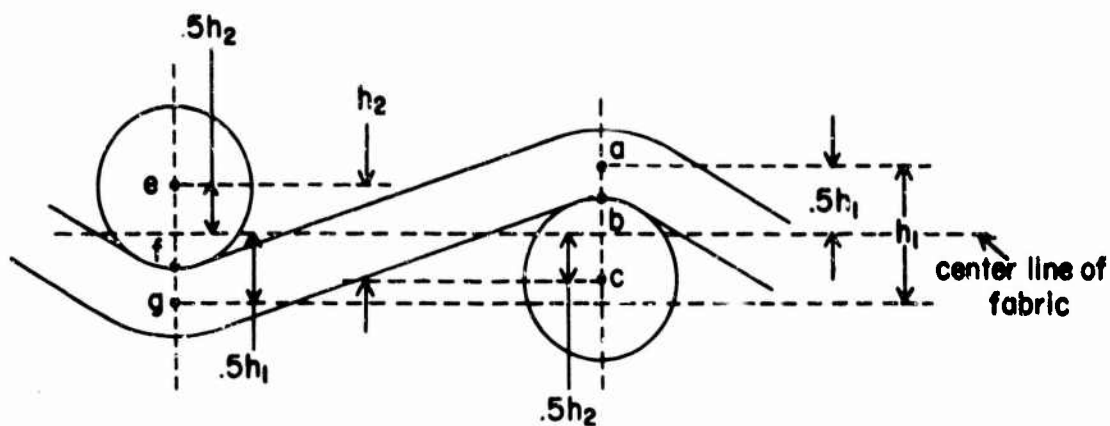
From the geometry of the triangle ABC:

$$\cos \theta = \frac{BC}{AC} = \frac{h_2}{D} \quad (41)$$

$$\text{and } h_2 = D \cos \theta \quad (42)$$

It can also be shown that for any yarn configuration

$$h_1 + h_2 = D \quad (43)$$



$$.5h_1 + .5h_2 = ef + fg \quad .5h_1 + .5h_2 = ab + bc$$

$$h_1 + h_2 = ab + bc + ef + fg$$

$$ab = r_1 \text{ (radius of warp yarn)}$$

$$bc = r_2 \text{ (radius of filling yarn)}$$

$$ef = r_2$$

$$fg = r_1$$

$$h_1 + h_2 = r_1 + r_2 + r_1 + r_2$$

$$h_1 + h_2 = 2(r_1 + r_2) = d_1 + d_2 = D$$

$$\text{therefore } h_1 + h_2 = D$$

Summarizing: When the warp is jammed, then from equation (42)

$$h_2 = D \cos \theta_1$$

When the filling yarn is jammed it can be shown in an analogous fashion that:

$$h_1 = D \cos \theta_2 \quad (44)$$

$$\text{Since } h_1 + h_2 = D \quad (45)$$

$$\text{then } D \cos \theta_1 + D \cos \theta_2 = D \quad (46)$$

$$\text{and } \cos \theta_1 + \cos \theta_2 = 1 \quad (47)$$

$$\text{Since } \cos^2 \theta + \sin^2 \theta = 1 \quad (48)$$

$$\cos \theta_1 = \sqrt{1 - \sin^2 \theta_1} \quad (49)$$

$$\text{and } \cos \theta_2 = \sqrt{1 - \sin^2 \theta_2} \quad (50)$$

$$\text{Therefore } \sqrt{1 - \sin^2 \theta_1} + \sqrt{1 - \sin^2 \theta_2} = 1 \quad (51)$$

$$\text{Recall from equation (40) that } p_2 = D \sin \theta_1 \quad (52)$$

$$\text{then } \sin \theta_1 = \frac{p_2}{D}$$

$$\text{analogously } p_1 = D \sin \theta_2 \quad \text{and } \sin \theta_2 = \frac{p_1}{D} \quad (53)$$

Therefore
$$\sqrt{1 - \left(\frac{P_2}{D}\right)^2} + \sqrt{1 - \left(\frac{P_1}{D}\right)^2} = 1 \quad (54)$$

Equation (54) is the basis of the widely used equations for maximum weavable fabrics. To make it more generally applicable to the design problems of the textile engineer, it has been customary to introduce the cover factor (K) into the relationship and also to use the Beta (B) factor instead of D.

Beta (B) is defined as the ratio of the filling yarn diameter to the warp yarn diameter. It is also numerically equal to the ratio of the square root of the warp yarn number to the square root of the filling yarn number, for the indirect yarn numbering system.

Thus
$$B = \frac{d_2}{d_1} \quad \text{and} \quad d_2 = B d_1 \quad (55)$$

or
$$B = \sqrt{\frac{N_1}{N_2}} \quad (56)$$

Since $D = d_1 + d_2$ it follows from (55) that

$$D = d_1 + B d_1 \quad \text{and} \quad D = d_1 (1 + B) \quad (57)$$

also
$$D = \frac{d_2}{B} = d_2 \quad D = \frac{d_2 (1 + B)}{B} \quad (58)$$

Therefore
$$\frac{P_1}{D} = \frac{P_1}{d_1 (1 + B)} \quad (59)$$

$$\frac{P_2}{D} = \frac{P_2}{d_2} \frac{B}{(1+B)} \quad (60)$$

Recall from (26) that $\frac{d}{p} = \frac{K}{K_0}$ (61)

Also from (29) for yarns numbered in the cotton system and having a bulk density of .909 (the value selected by Peirce):

$$K_0 = 27.8 \quad (62)$$

Then $\frac{d}{p} = \frac{K}{27.8}$ or $\frac{P}{d} = \frac{27.8}{K}$ (63)

Thus from (57) $\frac{P_1}{D} = \frac{27.8}{K_1(1+B)}$ (64)

and from (58) $\frac{P_2}{D} = \frac{27.8B}{K_2(1+B)}$ (65)

Therefore:

$$\sqrt{1 - \left(\frac{27.8}{K_1(1+B)}\right)^2} + \sqrt{1 - \left(\frac{27.8B}{K_2(1+B)}\right)^2} = 1 \quad (66)$$

This is the equation for the plain weave, from which the supplementary equations for the twill and sateen weaves have been derived. Before going into the derivation of these other equations it might be well to briefly review the manner in which the above equation is used. Observe that there are variables K_1 , K_2 and B . These three are not completely independent. The warp yarn number N_1 is a component of K_1 ; the filling yarn number N_2 is a component of K_2 and the ratio of these two yarn numbers determines B . For a given B and K_1 however, it is possible to obtain the corresponding K_2 required to make the fabric a maximum weavable construction

and conversely for a given B and K , it is possible to obtain the corresponding K required to make a maximum weavable construction. In Textile Series Report No. 128 ⁴ this equation was solved for a wide range of cover factors (K) and Beta factors (B). For example, on page 149 of report No. 128 it may be observed that for a fabric having a warp cover factor (K) of 20 and a Beta factor (B) of 1.4, the maximum possible filling cover factor (K) is 16.6.

From the practical point of view, the textile designer would tentatively select a warp texture (m) and a warp yarn number (N) to obtain the warp cover factor. Then for a given filling yarn number, which would provide the Beta (B), he would obtain the maximum possible filling cover factor and finally for the given filling yarn number he would find in the tables in Report No. 128 ⁴ the maximum number of filling yarns (n) which could be woven into the given structure. Depending upon which constructional factors are known, a spectrum of the unknowns in the design of the plain weave fabric can thus be obtained.

III. DERIVATION OF THE EQUATIONS FOR LOCAL SPACING IN TWILLS AND SATENS

Pearce did not extend his geometry of jammed plain weave fabrics to other weave types. This was done by Lowe² in 1959. Two additional assumptions must be made regarding the geometry of the yarns in long float weaves, such as the twills and the satens, before a model can be formulated from analysis. The first assumption is that the yarns under a long float move toward each other under the stress of weaving until they touch. The second assumption goes beyond the touch stage and postulates that complete flattening takes place in that half of the yarn which contacts a neighboring yarn under the float, i.e., that the original semicircle of the yarn half section becomes a rectangle after compression; and that this compression does not alter the fiber packing density (packing factor). Actual observation of yarns in many tight constructions confirms the fact that these assumptions have a valid basis.

In this section of the report two equations are derived which provide solutions for local spacing (p) in terms of weave factor (M), average spacing (p_a) and either original average yarn diameter (d_{oa}) which pertains to the situation where the yarns move toward and touch each other but are not compressed (designated as Aspect I) or (M), (p_a), (d_{oa}) and compressed average yarn diameter (d_{ca}) which pertains to the situation where compression of the yarns takes place in that half of the yarn which contacts a neighboring yarn under the float (designated as Aspect II).



The following terms are defined:

M = weave factor = $\frac{\text{Number of yarns per repeat of weave}}{\text{Number of interlacings per repeat of weave}}$

p = local spacing = distance between yarn centers of warp or filling at interlacings.

p_a = average spacing = numerical average of "local spacings" and spacing at points of no interlacing.

d_{oa} = original average lateral diameter = the numerical average of the yarn diameters assuming no compression has taken place (Aspect (I)).

d_o = original lateral diameter = same value as d_{oa} for an individual yarn.

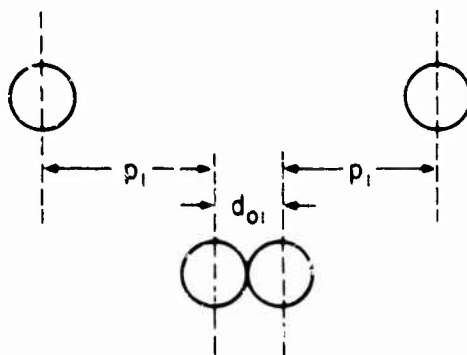
d_{ca} = compressed average lateral diameter = the numerical average of the compressed and uncompressed lateral diameters of the yarns (Aspect (II)).

d_c = compressed lateral diameter = lateral diameter of compressed yarn only.

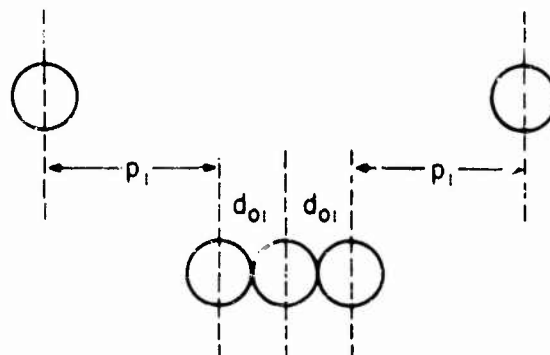
l = subscript l as p_l , p_{al} , d_{oal} , etc. indicates warp yarn.

Aspect I

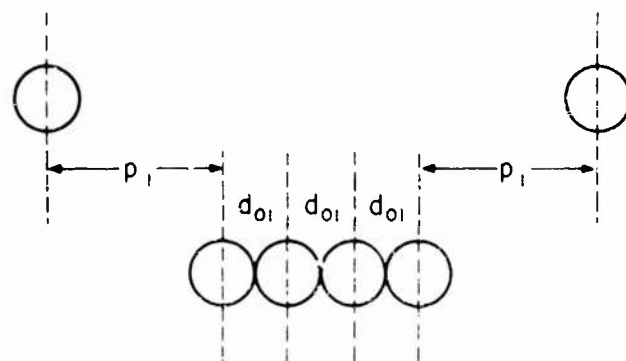
First examine the situation of Aspect I where the yarns under the floats are assumed to be in contact but not compressed. This can be illustrated diagrammatically for a 3-, 4-, and 5-harness weave as follows:



3 HARNESS
 $M = 1.5$



4 HARNESS
 $M = 2.0$



5 HARNESS
 $M = 2.5$

Warp Yarn Arrangement in Twill Weaves (No Compression)

As shown above, p_1 is the local spacing, which is defined as the distance between centers of the warp yarns (for this case) at the interlacing. And d_{o1} is the uncompressed diameter of the warp yarn. In these illustrations d_{o1} also represents the spacing at points of no interlacing under the floats.

Now the average warp spacing (p_{a1}) for each of the three weaves is:

$$3\text{-harness} = p_{a1} = \frac{2p_1 + d_{o1}}{3}$$

$$4\text{-harness} = p_{a1} = \frac{2p_1 + 2d_{o1}}{4}$$

$$5\text{-harness} = p_{a1} = \frac{2p_1 + 3d_{o1}}{5}$$

Solving each of the above for p_1 we obtain:

$$3\text{-harness: } 3p_{a1} = 2p_1 + d_{o1} \quad p_1 = 3/2 p_{a1} - 1/2 d_{o1}$$

$$4\text{-harness: } 4p_{a1} = 2p_1 + 2d_{o1} \quad p_1 = 4/2 p_{a1} - 2/2 d_{o1}$$

$$5\text{-harness: } 5p_{a1} = 2p_1 + 3d_{o1} \quad p_1 = 5/2 p_{a1} - 3/2 d_{o1}$$

Note that for all of these simple weaves the number of interlacings is two and the number of yarns per repeat is equal to the number of harnesses of the weave. Thus, the weave factor is numerically equal to half the number of harnesses. In the above equations the coefficient of p_{a1} is always equal to the number of harnesses divided by the number of interlacings--which is the weave factor "M". Likewise, the coefficient of d_{o1} is equal to the weave factor less one or "M-1".

Thus for uncompressed yarns:

$$p_1 = Mp_{a1} - (M-1) d_{o1}$$

Since for uncompressed yarns $d_{o1} = d_{oa1}$

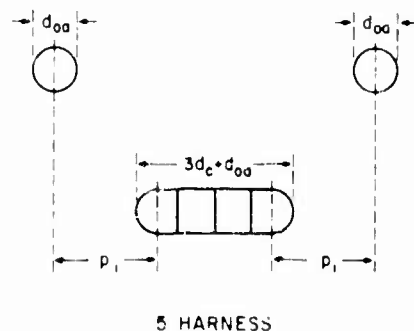
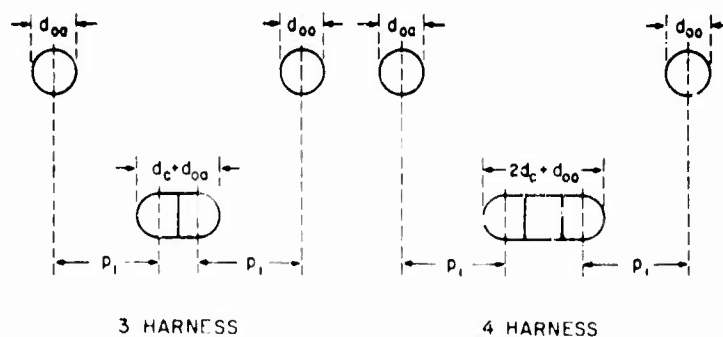
then

$$\underline{p_1 = Mp_{a1} - (M-1) d_{oa1}}$$

Aspect (I) (67)

Aspect II

Now examine Aspect (II) in which compression takes place in the warp yarns under the float. Recall that compression occurs in that half of the yarn which contacts a neighboring yarn under the float. For the three weaves this may be represented as follows:



Warp Yarn Arrangement in Twill Weaves (Compressed Situation)

The average compressed and average yarn diameter (d_{ca1}) and the compressed yarn diameter (d_{c1}) for the three weaver is then:

$$3\text{-harness: } d_{ca1} = \frac{4d_{ca1} + d_{c1}}{3}$$

$$3d_{ca1} = 4d_{ca1} + d_{c1}$$

$$d_{c1} = 3d_{ca1} - 4d_{ca1}$$

$$4\text{-harness: } d_{ca1} = \frac{3d_{ca1} + 2d_{c1}}{4}$$

$$4d_{ca1} = 3d_{ca1} + 2d_{c1}$$

$$d_{c1} = \frac{4d_{ca1} - 3d_{ca1}}{2}$$

$$5\text{-harness: } d_{ca1} = \frac{2d_{ca1} + 3d_{c1}}{5}$$

$$5d_{ca1} = 2d_{ca1} + 3d_{c1}$$

$$d_{c1} = \frac{5d_{ca1} - 2d_{ca1}}{3}$$

The average spacing (p_{a1}) for each of the three weaves is:

$$3\text{-harness: } p_{a1} = \frac{2p_1 + d_{ca1}}{3} = \frac{2p_1 + 3d_{ca1} - 2d_{oa1}}{3}$$

$$4\text{-harness: } p_{a1} = \frac{2p_1 + 2d_{ca1}}{4} = \frac{2p_1 + 2 \left(\frac{4d_{ca1} - 2d_{oa1}}{2} \right)}{4}$$

$$5\text{-harness: } p_{a1} = \frac{2p_1 + 3d_{ca1}}{5} = \frac{2p_1 + 3 \left(\frac{5d_{ca1} - 2d_{oa1}}{3} \right)}{5}$$

Solving each of the above for p_1 we obtain:

$$\begin{aligned} 3\text{-harness: } 3p_{a1} &= 2p_1 + 3d_{ca1} - 2d_{oa1} \\ p_1 &= 3/2 p_{a1} - 3/2 d_{ca1} + d_{oa1} \\ &= 3/2 (p_{a1} - d_{ca1}) + d_{oa1} \end{aligned}$$

$$\begin{aligned} 4\text{-harness: } 4p_{a1} &= 2p_1 + 4d_{ca1} - 2d_{oa1} \\ p_1 &= 1/2 p_{a1} + 1/2 d_{ca1} + d_{oa1} \\ &= 1/2 (p_{a1} - d_{ca1}) + d_{oa1} \end{aligned}$$

$$\begin{aligned} 5\text{-harness: } 5p_{a1} &= 2p_1 + 5d_{ca1} - 2d_{oa1} \\ p_1 &= 5/2 p_{a1} - 5/2 d_{ca1} + d_{oa1} \\ &= 5/2 (p_{a1} - d_{ca1}) + d_{oa1} \end{aligned}$$

Here, the coefficient of $(p_{a1} - d_{ca1}) = M$ for each of the weaves.
Thus for compressed yarns:

$$p_1 = M(p_{a1} - d_{ca1}) + d_{oa1} \quad \text{Aspect (II)} \quad (68)$$

IV. DERIVATION OF Δ_a (MAX) AND MAXIMUM WEAVABILITY EQUATIONS FOR OTHER WEAVE TYPES

Equation (68) provides a means of determining the local spacing (p) in the warp and filling directions for twill and sateen fabrics in which the assumed movement and compression of the yarns under the float takes place. This provides the numerator of the ratio p/D which is the essential expression in the formulation of the equation for maximum weavability. Now we must find the appropriate value of D (sum of diameters of warp and filling yarns) which will take into consideration the assumed yarn movement and compression. It is understood that compression takes place only in the plane of the fabric and that accordingly the vertical dimension of the yarn (that direction perpendicular to the plane of the fabric) does not change during compression. In addition, fiber packing density does not change.

We can now visualize the dimensional arrangement of the yarns in situations where there are 2, 3, and 4 yarns under the float, representing 3-, 4-, and 5-harness weaves and can compute the average compressed diameter (d_{ca}) of the yarns.

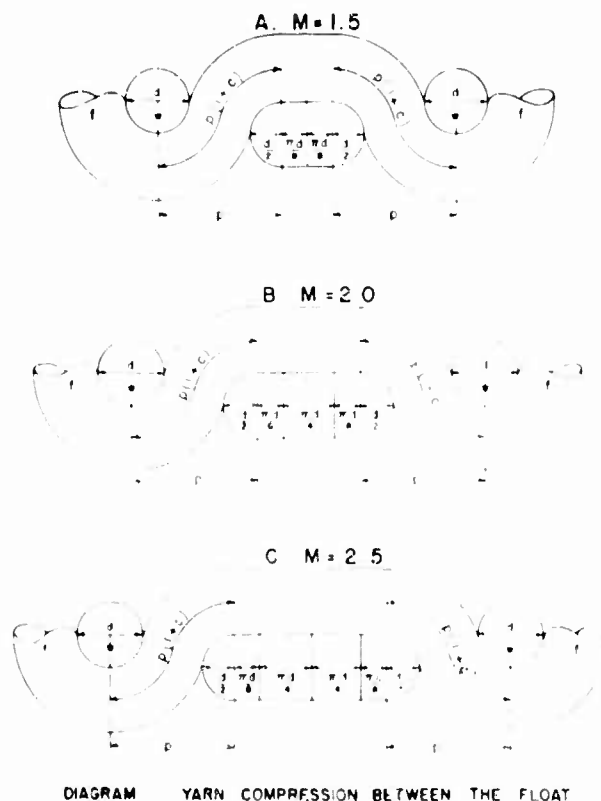


DIAGRAM YARN COMPRESSION BETWEEN THE FLOAT

We assumed that complete flattening takes place in the half of the yarn which contacts a neighboring yarn under the float and that the original semicircle of the yarn half section became a rectangle after compression. Since the vertical dimension of this compressed half section does not change from the original uncompressed yarn, all of the compression must take place in the horizontal direction. But since the fiber packing density remains constant, the area of the compressed half section must equal that of the uncompressed half section. This means that the product of the compressed horizontal dimension (width) multiplied by the uncompressed vertical dimension (height) must equal the area of the uncompressed semi-circular yarn section. In other words,

$$\frac{\pi d^2}{8} = d \times (\text{Compressed width}) \quad (69)$$

$$\text{Compressed width} = \frac{\pi d}{8} \quad (70)$$

$$\text{Compressed width} = .3927 d \quad (\text{of half-section}) \quad (71)$$

$$2 \text{ compressed widths} = .7854 d \quad (\text{full-section}) \quad (72)$$

In the situation shown in the diagram "Yarn Compression Between the Float," for $M = 1.5$ (where three yarns constitute a repeat of weave), the original (before compression) lateral diameter of the three yarns in the repeat is:

$$d \times 3 = 3d \quad (73)$$

After compression has taken place the lateral diameters of the three yarns in the repeat is:

$$d + d + .79 d = 2.79 d \quad (74)$$

The compressed average lateral diameter is then

$$d_{ca} = \frac{2.79 d}{3} \quad (75)$$

Or putting this in terms of the standard symbols:

$$d_{ca} = .93 d_{oa} \quad (\text{for } M = 1.5) \quad (76)$$

By following the same reasoning we find that the relationships between d_{ca} and d_{oa} for the weaves with $M = 2$ and $M = 2.5$ are:

$$d_{ca} = .89 d_{oa} \quad (\text{for } M = 2.0)$$

$$d_{ca} = .87 d_{oa} \quad (\text{for } M = 2.5)$$

Computation of K_a (max)

Since the average compressed lateral diameters of the yarns are less than the average original lateral diameters of the yarns, it is obvious that more compressed yarns can be squeezed into the same space than would be predicted from the value of K_0 which was previously computed, since K_0 represents the maximum cover factor for yarns assumed to be completely cylindrical. Therefore, in dealing with the 3-, 4-, and 5-harness weaves where migration and compression of the yarns under the float take place, it is necessary to develop a new K_0 to take into consideration the additional number of yarns it is possible to squeeze into the structure. This new K_0 is designated as K_a (max.).

Recall from equation (25) that:

$$\frac{d}{p} = \frac{.0042K}{\sqrt{De}} \quad (77)$$

Since for cotton $De = .909$

$$\text{then } \frac{d}{p} = .00439K \quad (78)$$

$$\text{or } \frac{d}{p} = \frac{K}{227.8} \quad (79)$$

$$\text{and } K = \frac{227.8d}{p} \quad (80)$$

The maximum cover factor or K_a (max) will occur when adjacent yarns are in contact. When this situation prevails the average spacing equals the average compressed diameters or

$$p_a = d_{ca} \quad (81)$$

and using equation (68) for total spring

$$P_1 = M(P_{al} + d_{cal}) + d_{cal} \quad (91)$$

We obtain
$$\frac{P_1}{D} = \frac{M(P_{al} + d_{cal}) + d_{cal}}{1.08 d_{cal} (1 + B)} \quad (92)$$

From equation (80) using the value 28.0, we get:

$$K_{al} = \frac{28 d_{cal}}{P_{al}} + \frac{10.2 d_{cal}}{P_{al}} \quad (93)$$

and
$$P_{al} = \frac{10.2 d_{cal}}{K_{al}} \quad (94)$$

therefore

$$\frac{P_1}{D} = \frac{1.5 \left(\frac{10.2 d_{cal}}{K_{al}} + d_{cal} \right) + d_{cal}}{1.08 d_{cal} (1 + B)} \quad (95)$$

$$\frac{P_1}{D} = \frac{1.5 d_{cal} \left(\frac{10.2}{K_{al}} + 1 \right) + d_{cal}}{1.08 d_{cal} (1 + B)} \quad (96)$$

$$\frac{P_1}{D} = \frac{1.5 d_{cal} \left(\frac{10.2}{K_{al}} + 1 \right) + 1.08 d_{cal}}{1.08 d_{cal} (1 + B)} \quad (97)$$

$$\frac{p_1}{D} = \frac{1.5 \left(\frac{d_{oa2}}{K_{a1}} - 1 \right) + 1.08}{1.08 (1 + B)} \quad (98)$$

$$\text{Recall from (55) that } B = \frac{d_{oa2}}{d_{oa1}} \quad d_{oa1} = \frac{d_{oa2}}{B} \quad (99)$$

$$\text{And } D = d_{oa1} + d_{oa2} \quad (100)$$

$$\text{therefore } D = \frac{d_{oa2}}{B} + d_{oa2} \quad (101)$$

$$D = \frac{d_{oa2} + d_{oa2} B}{B} \quad (102)$$

$$D = \frac{d_{oa2} (1 + B)}{B} \quad (103)$$

$$\text{And from (89) } d_{oa2} = 1.08 d_{ca2} \quad (104)$$

$$\text{therefore } D = \frac{1.08 d_{ca2} (1 + B)}{B} \quad (\text{for } M = 1.5) \quad (105)$$

And from (68) for local spacing

$$p_2 = M (p_{a2} - d_{ca2}) + d_{oa2} \quad (106)$$

$$\text{therefore } \frac{p_2}{D} = \frac{M (p_{a2} - d_{ca2}) + d_{oa2}}{\frac{1.08 d_{ca2} (1 + B)}{B}} \quad (107)*$$

* M = 1.5 for equations 107 to 115 inclusive

$$\text{And } \frac{p_2}{D} = \frac{\left[M \left(\frac{p_2}{\rho_{a2}} - d_{ca2} \right) + d_{ca2} \right] B}{1.08 d_{ca2} (1 + B)} \quad (108)$$

$$\text{And from (94) } p_{a2} = \frac{30.2 d_{ca2}}{k_{a2}} \quad (109)$$

therefore

$$\frac{p_2}{D} = \frac{\left[M \left(\frac{30.2 d_{ca2}}{k_{a2}} - d_{ca2} \right) + d_{ca2} \right] B}{1.08 d_{ca2} (1 + B)} \quad (110)$$

$$\frac{p_2}{D} = \frac{\left[M d_{ca2} \left(\frac{30.2}{k_{a2}} - 1 \right) + d_{ca2} \right] B}{1.08 d_{ca2} (1 + B)} \quad (111)$$

$$\frac{p_2}{D} = \frac{\left[M d_{ca2} \left(\frac{30.2}{k_{a2}} - 1 \right) + 1.08 d_{ca2} \right] B}{1.08 d_{ca2} (1 + B)} \quad (112)$$

$$\frac{p_2}{D} = \frac{\left[M \left(\frac{30.2}{k_{a2}} - 1 \right) + 1.08 \right] B}{1.08 (1 + B)} \quad (113)$$

And since from (54)

$$\sqrt{1 - \left(\frac{p_1}{D} \right)^2} + \sqrt{1 - \left(\frac{p_2}{D} \right)^2} = 1 \quad (114)$$

We have

(115)

$$V = \frac{\left[M \left(\frac{20.2}{K_{a1}} - 1 \right) + 1.08 \right]^2}{1.08 (1 + B)} + V = \frac{\left[M \left(\frac{20.2}{K_{a2}} - 1 \right) + 1.08 \right]^2 B}{1.08 (1 + B)} \quad 1$$

This is the specific maximum weavability equation of a three harness weaves for cotton fabrics numbered in the cotton system and using a K_0 of 28.0.

V. DERIVATION OF THE GENERALIZED MAXIMUM WEAVABILITY EQUATIONS FOR ALL FIBER SPECIES AND BLENDS

We shall now derive the general equation for a three harness weave made from any type of fiber but also numbered in the cotton system.

$$\text{Recall from (77) that } \frac{d}{p} = \frac{.0342 K}{V D_e} \quad (116)$$

Where D_e is the bulk density of the yarn

$$\text{and } \frac{d}{p} = \frac{K}{29.2 V D_e} \quad (117)$$

Thus, recalling equation (79), whenever we use the factors 27.6 or 28.0 in the derivation of equation (115) above, we may now substitute $29.2 \sqrt{D_e}$

For example, for the three harness weave, equation (85)

$$K_a (\max) = \frac{29.2 \sqrt{D_e} d_{oa}}{.93 d_{oa}} = 31.4 \sqrt{D_e} \quad (118)$$

Thus, the general equation for the L-harness weave is:

(119)

$$\sqrt{1 - \left[\frac{1.5 \left(\frac{31.4 \sqrt{D_c}}{K_{a1}} - 1 \right) + 1.08}{1.08 (1 + B)} \right]^2} \cdot \sqrt{1 - \left[\frac{1.5 \left(\frac{31.4 \sqrt{D_c}}{K_{a1}} - 1 \right) + 1.08}{1.08 (1 + B)} \right]^2 B} = 1$$

(120)

For the L-harness weave ($M = 2$) $d_{ca1} = 3.57 d_{oa1} / 4 = .89 d_{oa1}$

And $d_{oa1} = 1.12 d_{ca1}$

(121)

$$K_{a1} = \frac{28 d_{ca1}}{P_{a1}} = \frac{28 \times 1.12 d_{ca1}}{P_{a1}} = \frac{31.4 d_{ca1}}{P_{a1}} \quad (122)$$

For the general case of the L-harness weave, we use

$$K_{a1} = \frac{29.2 \sqrt{D_c} \times 1.12 d_{ca1}}{P_{a1}} = \frac{32.7 \sqrt{D_c} d_{ca1}}{P_{a1}} \quad (123)$$

And the general equation for the L-harness weave is:

(124)

$$\sqrt{1 - \left[\frac{2 \left(\frac{32.7 \sqrt{D_c}}{K_{a1}} - 1 \right) + 1.12}{1.12 (1 + B)} \right]^2} \cdot \sqrt{1 - \left[\frac{2 \left(\frac{32.7 \sqrt{D_c}}{K_{a1}} - 1 \right) + 1.12}{1.12 (1 + B)} \right]^2 B} = 1$$

For the 5-harness weave ($M = 2.0$)

$$d_{\text{cal}} = .87 d_{\text{bal}} \quad (125)$$

$$d_{\text{bal}} = 1.15 d_{\text{cal}} \quad (126)$$

For the general case of the 5-harness weave we use

$$K_{a1} = \frac{29.2 \sqrt{D_e} (1.15) d_{\text{cal}}}{p_{a1}} = 33.6 \quad (127)$$

And thus the general equation for the 5-harness weave is: (128)

$$\sqrt{1 - \left[\frac{2.5 \left(\frac{33.6 \sqrt{D_e}}{K_{a1}} - 1 \right) + 1.15}{1.15 (1 + B)} \right]^2} + \sqrt{1 - \left[\frac{2.5 \left(\frac{33.6 \sqrt{D_e}}{K_{a2}} - 1 \right) + 1.15}{1.15 (1 + B)} B \right]^2} = 1$$

For the Oxford Weave the warp portion of the equation is identical to that for the 4-harness weave ($M = 2.0$) and the filling portion of the equation is identical to that for the Plain (2-harness weave).

The general equation for the Oxford is therefore: (129)

$$\sqrt{1 - \left[\frac{2.0 \left(\frac{32.7 \sqrt{D_e}}{K_{a1}} - 1 \right) + 1.12}{1.12 (1 + B)} \right]^2} + \sqrt{1 - \left[\frac{29.2 \sqrt{D_e} B}{(1 + B) K_{a2}} \right]^2} = 1$$

These general equations are now in practically the same form as the original equations for cotton which were derived in Textile Series Report No. 90 3, and solved and tabled in Textile Series Report No. 128 4. One new variable appears, namely, P_y , the bulk density of the yarn. In the tabulations which appear in Textile Series Report 128 4, one table is required to encompass the solutions of the maximum weavability equation for each weave type, or a total of five tables are necessary for the five basic weave types: the plain, 3-harness, 4-harness, 5-harness and oxford. To establish a series of tables of solutions for the new general equations it will be necessary to have a group of five tables (representing the five weaves) for each of the yarn bulk densities which are selected.

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3. Love, L., "Graphical Relationships in Cloth Geometry for Plain, Twill and Sateen Weaves," Textile Series Report No. 90, US Army Natick Laboratories, Natick, Mass. (September 1955).
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TABLE I

BULK DENSITIES OF YARNS, COMPUTED FROM FIBER DENSITIES

This table lists the fiber densities of the natural and man-made fibers in use today. Corresponding to each fiber density, the yarn bulk density of a theoretical yarn spun from this fiber is given, assuming that the packing coefficients of the yarn are 0.59 or 0.67. The range of densities includes fibers as light as polypropylene and as heavy as stainless steel. The additional fiber densities provide for the development of fibers which differ in density from existing fiber species.

TABLE I

BULK DENSITIES OF YARNS, COMPUTED FROM FIBER DENSITIES
(Listed in order of fiber density)

<u>Fiber Designation</u>	<u>Fiber Density</u>	<u>Yarn Bulk Density (gm/cm³)</u>	
		P.F. = 0.59	P.F. = 0.67
Polypropylene	.91	.54	.61
Polyethylene (Low Density)	.92	.54	.62
Polyethylene (High Density)	.95	.56	.64
	.98	.58	.66
	1.10	.65	.74
	1.12	.66	.75
Nylon	1.14	.67	.77
Orlon	1.14	.67	.77
	1.15	.68	.77
Acrilan	1.17	.69	.79
Creslan	1.18	.70	.79
Nytril	1.18	.70	.79
Zefran	1.19	.70	.80
	1.20	.71	.81
Kodel	1.22	.72	.82
	1.24	.73	.83
Silk (Boiled-off)	1.25	.74	.84
Azlon	1.25	.74	.84
Viral	1.26	.74	.85

TABLE I (Cont'd)

BULK DENSITIES OF YARNS, COMPUTED FROM FIBER DENSITIES
(Listed in order of fiber density)

<u>Fiber Designation</u>	<u>Fiber Density</u>	<u>Yarn Bulk Density (gm/cm³)</u>	
		P.F. = 0.59	P.F. = 0.57
	1.27	.75	.85
	1.29	.76	.87
Dynel	1.30	.77	.87
Arnel	1.30	.77	.87
Ardil	1.30	.77	.87
Wool	1.32	.78	.89
Mohair	1.32	.78	.89
Acetate	1.32	.78	.89
	1.34	.79	.90
Vinyon	1.35	.80	.91
Vycron	1.36	.80	.92
Verel	1.37	.81	.92
Dacron	1.38	.81	.93
Fortrel	1.38	.81	.93
	1.39	.82	.94
	1.41	.83	.95
	1.42	.84	.96
	1.44	.85	.97
	1.46	.86	.98

TABLE I (Cont'd)

BULK DENSITIES OF YARNS, COMPUTED FROM FIBER DENSITIES
(Listed in order of fiber density)

<u>Fiber Designation</u>	<u>Fiber Density</u>	<u>Yarn Bulk Density</u>	
		P.F. = 0.59	P.F. = 0.67
Hemp	1.48	.87	1.00
Jute	1.48	.87	1.00
	1.49	.88	1.00
Avril	1.50	.89	1.01
Flax (Linen)	1.50	.89	1.01
Ramie	1.51	.89	1.02
Zantrel	1.51	.89	1.02
Viscose Rayon	1.52	.90	1.02
Cuprammonium	1.52	.90	1.02
Fortisan	1.52	.90	1.02
Cotton	1.54 (1.35)	.91	(.91)
	1.56	.92	1.05
	1.58	.93	1.06
	1.59	.94	1.07
Saran	1.70	1.00	1.14
Alginate	1.70	1.00	1.14
Teflon	2.30	1.36	1.55
Asbestos	2.50	1.48	1.68
Fiberglas	2.54	1.50	1.71

TABLE I (Cont'd)

BULK DENSITIES OF YARNS, COMPUTED FROM FIBER DENSITIES
(Listed in order of fiber density)

<u>Fiber Designation</u>	<u>Fiber Density</u>	<u>Yarn Bulk Density</u> (gm/cm ³)	
		P.F. = 0.59	P.F. = 0.67
	3.00	1.77	2.02
	4.00	2.36	2.69
	5.00	2.95	3.37
	6.00	3.54	4.04
	7.00	4.13	4.71
Stainless Steel	7.80	4.60	5.25

TABLE II
YARN BULK DENSITIES OF BLENDS OF THE IMPORTANT COMMERCIAL FIBERS

<u>Fiber Density</u>	<u>Fiber Designation</u>
1.14	Nylon, Orlon
1.17	Acrilan
1.22	Kodel
1.30	Dynel, Arnel
1.32	Wool, Mohair, Acetate
1.35	Vinyon
1.38	Dacron, Fortrel
1.52	Viscose Rayon, Cuprammonium, Fortisan
1.54	Cotton

The fiber density of one of the component fibers is given at the top of the first column, with the percentage of that fiber (from 0% to 100%) given below it.

The headings of the following eight columns give the fiber densities of the other component fibers, and the values in the body of the table are yarn bulk densities.

For example: Given a blend of 25% nylon, 75% cotton. Turn to page of table with "Fib. den = 1.14" above first column (fiber density of nylon is 1.14). Drop down to 25 in this column (the percentage of nylon in the blend). Go across this row (25) to the column headed 1.54 (this is the fiber density of cotton). This will give the bulk density of a blend of 25% nylon and 75% cotton as .84.

TABLE II

YARN BULK DENSITIES OF THE IMPORTANT COMMERCIAL FIBERS

(FIB. DEN. = 1.17)	1.14	1.22	1.30	1.32	1.35	1.38	1.52	1.54
PER CENT				PACKING FACTOR = 0.59				
0	0.67	0.72	0.77	0.78	0.80	0.81	0.90	0.91
5	0.67	0.72	0.76	0.77	0.79	0.81	0.88	0.89
10	0.67	0.72	0.76	0.77	0.78	0.80	0.87	0.88
15	0.68	0.72	0.75	0.76	0.78	0.79	0.86	0.87
20	0.68	0.71	0.75	0.76	0.77	0.79	0.85	0.85
25	0.68	0.71	0.75	0.75	0.77	0.78	0.83	0.84
30	0.68	0.71	0.74	0.75	0.76	0.77	0.82	0.83
35	0.68	0.71	0.74	0.75	0.76	0.77	0.81	0.82
40	0.68	0.71	0.73	0.74	0.75	0.76	0.80	0.81
45	0.68	0.71	0.73	0.74	0.75	0.76	0.79	0.80
50	0.68	0.70	0.73	0.73	0.74	0.75	0.78	0.78
55	0.68	0.70	0.72	0.73	0.74	0.75	0.77	0.77
60	0.68	0.70	0.72	0.72	0.73	0.74	0.76	0.76
65	0.68	0.70	0.72	0.72	0.72	0.73	0.75	0.75
70	0.68	0.70	0.71	0.71	0.72	0.72	0.74	0.74
75	0.69	0.70	0.71	0.71	0.71	0.72	0.73	0.73
80	0.69	0.70	0.70	0.71	0.70	0.71	0.71	0.72
85	0.69	0.69	0.70	0.70	0.70	0.70	0.71	0.71
90	0.69	0.69	0.69	0.69	0.69	0.70	0.70	0.70
100	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
				PACKING FACTOR = 0.67				
0	0.77	0.82	0.87	0.89	0.91	0.93	1.02	1.04
5	0.77	0.82	0.87	0.88	0.90	0.92	1.01	1.02
10	0.77	0.82	0.87	0.88	0.89	0.91	0.99	1.00
15	0.77	0.81	0.86	0.87	0.88	0.90	0.98	0.99
20	0.77	0.81	0.86	0.87	0.87	0.89	0.97	0.97
25	0.77	0.81	0.85	0.86	0.87	0.88	0.95	0.96
30	0.77	0.81	0.85	0.86	0.87	0.88	0.94	0.95
35	0.77	0.81	0.84	0.85	0.86	0.87	0.93	0.93
40	0.77	0.81	0.84	0.85	0.86	0.87	0.91	0.92
45	0.77	0.81	0.83	0.84	0.85	0.86	0.90	0.91
50	0.77	0.81	0.83	0.83	0.84	0.85	0.89	0.89
55	0.77	0.81	0.82	0.83	0.84	0.85	0.88	0.88
60	0.77	0.81	0.82	0.82	0.83	0.84	0.87	0.87
65	0.77	0.81	0.82	0.82	0.83	0.83	0.86	0.86
70	0.77	0.81	0.81	0.82	0.83	0.83	0.85	0.85
75	0.77	0.81	0.81	0.81	0.81	0.82	0.84	0.84
80	0.77	0.81	0.81	0.81	0.81	0.81	0.83	0.83
85	0.77	0.81	0.81	0.81	0.81	0.81	0.82	0.82
90	0.77	0.81	0.81	0.81	0.81	0.81	0.81	0.81
100	0.77	0.81	0.81	0.81	0.81	0.81	0.80	0.80

TABLE II
YARN RING DENSITIES OF THE IMPORTANT COMMERCIAL FIBERS

PER CENT	1.14	1.17	1.20	1.32	1.45	1.52	1.54
	PACKING FACTOR = 0.59						
1	0.67	0.69	0.77	0.78	0.80	0.81	0.91
2	0.67	0.69	0.76	0.78	0.79	0.81	0.90
3	0.68	0.69	0.76	0.77	0.79	0.80	0.89
4	0.68	0.70	0.76	0.77	0.78	0.80	0.87
5	0.68	0.70	0.75	0.76	0.78	0.79	0.86
6	0.69	0.70	0.75	0.76	0.77	0.78	0.85
7	0.69	0.70	0.75	0.76	0.77	0.78	0.84
8	0.69	0.70	0.75	0.76	0.77	0.78	0.83
9	0.69	0.70	0.75	0.76	0.77	0.78	0.82
10	0.69	0.70	0.75	0.76	0.77	0.78	0.81
11	0.70	0.71	0.74	0.75	0.76	0.77	0.80
12	0.70	0.71	0.74	0.75	0.76	0.77	0.79
13	0.70	0.71	0.74	0.75	0.76	0.77	0.78
14	0.70	0.71	0.74	0.75	0.76	0.77	0.77
15	0.71	0.71	0.73	0.74	0.75	0.76	0.76
16	0.71	0.71	0.73	0.74	0.75	0.76	0.75
17	0.71	0.72	0.73	0.73	0.73	0.74	0.74
18	0.71	0.72	0.73	0.73	0.73	0.73	0.74
19	0.71	0.72	0.72	0.72	0.72	0.72	0.73
20	0.72	0.72	0.72	0.72	0.72	0.72	0.72

PER CENT	PACKING FACTOR = 0.67						
1	0.77	0.79	0.87	0.88	0.91	0.93	1.04
2	0.77	0.79	0.87	0.88	0.90	0.92	1.02
3	0.77	0.79	0.87	0.88	0.90	0.92	1.01
4	0.78	0.80	0.86	0.87	0.89	0.91	1.00
5	0.78	0.80	0.86	0.87	0.88	0.91	0.98
6	0.78	0.80	0.86	0.87	0.88	0.90	0.97
7	0.78	0.80	0.86	0.87	0.88	0.89	0.96
8	0.78	0.80	0.86	0.87	0.88	0.89	0.95
9	0.78	0.80	0.86	0.87	0.87	0.88	0.94
10	0.78	0.80	0.86	0.87	0.87	0.88	0.93
11	0.78	0.80	0.86	0.87	0.86	0.87	0.92
12	0.78	0.80	0.86	0.87	0.86	0.87	0.91
13	0.78	0.80	0.86	0.87	0.85	0.86	0.90
14	0.78	0.80	0.86	0.87	0.85	0.86	0.89
15	0.78	0.80	0.86	0.87	0.84	0.85	0.88
16	0.78	0.80	0.86	0.87	0.84	0.85	0.87
17	0.78	0.80	0.86	0.87	0.83	0.84	0.86
18	0.78	0.80	0.86	0.87	0.83	0.84	0.85
19	0.78	0.80	0.86	0.87	0.83	0.84	0.84
20	0.78	0.80	0.86	0.87	0.83	0.83	0.83

TABLE II

YARN BULK DENSITIES OF THE IMPORTANT COMMERCIAL FIBERS

(FIB. CFN. = 1.33)	1.14	1.17	1.22	1.32	1.35	1.38	1.52	1.54
PER CFNT	PACKING FACTOR = 0.59							
0	0.67	0.69	0.72	0.78	0.80	0.81	0.90	0.91
5	0.68	0.69	0.72	0.78	0.79	0.81	0.89	0.90
10	0.68	0.70	0.72	0.78	0.79	0.81	0.88	0.89
15	0.69	0.70	0.73	0.78	0.79	0.81	0.87	0.88
20	0.69	0.70	0.73	0.78	0.79	0.80	0.87	0.88
25	0.69	0.71	0.73	0.78	0.79	0.80	0.86	0.87
30	0.70	0.71	0.73	0.78	0.79	0.80	0.85	0.86
35	0.70	0.72	0.74	0.77	0.79	0.80	0.85	0.85
40	0.71	0.72	0.74	0.77	0.78	0.79	0.84	0.85
45	0.71	0.72	0.74	0.77	0.78	0.79	0.83	0.84
50	0.72	0.73	0.74	0.77	0.78	0.79	0.83	0.83
55	0.72	0.73	0.75	0.77	0.78	0.79	0.82	0.82
60	0.73	0.73	0.75	0.77	0.78	0.79	0.81	0.82
65	0.73	0.74	0.75	0.77	0.78	0.78	0.81	0.81
70	0.74	0.74	0.75	0.77	0.78	0.78	0.80	0.80
75	0.74	0.75	0.75	0.77	0.77	0.78	0.80	0.80
80	0.74	0.75	0.76	0.77	0.77	0.78	0.79	0.79
85	0.74	0.75	0.76	0.77	0.77	0.77	0.78	0.78
90	0.74	0.75	0.76	0.77	0.77	0.77	0.77	0.77
95	0.74	0.75	0.76	0.77	0.77	0.77	0.77	0.77
100	0.74	0.75	0.76	0.77	0.77	0.77	0.77	0.77
PER CFNT	PACKING FACTOR = 0.67							
0	0.77	0.79	0.82	0.89	0.91	0.93	1.02	1.04
5	0.77	0.79	0.82	0.89	0.91	0.93	1.01	1.03
10	0.78	0.80	0.83	0.89	0.91	0.92	1.01	1.02
15	0.78	0.80	0.83	0.89	0.90	0.92	1.00	1.01
20	0.79	0.80	0.83	0.89	0.90	0.92	0.99	1.00
25	0.79	0.81	0.83	0.88	0.90	0.91	0.98	0.99
30	0.80	0.81	0.84	0.88	0.90	0.91	0.97	0.98
35	0.80	0.82	0.84	0.88	0.90	0.91	0.97	0.97
40	0.81	0.82	0.84	0.88	0.89	0.91	0.96	0.97
45	0.81	0.82	0.84	0.88	0.89	0.90	0.95	0.96
50	0.82	0.83	0.85	0.88	0.89	0.90	0.94	0.95
55	0.82	0.83	0.85	0.88	0.89	0.90	0.94	0.94
60	0.83	0.84	0.85	0.88	0.89	0.90	0.93	0.93
65	0.83	0.84	0.86	0.88	0.89	0.90	0.92	0.93
70	0.84	0.85	0.86	0.88	0.88	0.89	0.91	0.92
75	0.84	0.85	0.86	0.88	0.88	0.89	0.91	0.91
80	0.85	0.86	0.86	0.88	0.88	0.89	0.90	0.90
85	0.85	0.86	0.87	0.88	0.88	0.89	0.89	0.90
90	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89
95	0.87	0.87	0.87	0.88	0.88	0.88	0.88	0.88
100	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87

TABLE II

YARN RULY DENSITIES OF THE IMPORTANT COMMERCIAL FIBERS

(FIB. DEN. = 1.00)	1.14	1.17	1.22	1.30	1.35	1.38	1.52	1.54
PER CENT								
0	0.67	0.69	0.72	0.77	0.80	0.81	0.90	0.91
5	0.58	0.69	0.72	0.77	0.80	0.81	0.89	0.90
10	0.68	0.70	0.73	0.77	0.79	0.81	0.88	0.89
15	0.69	0.70	0.73	0.77	0.79	0.81	0.88	0.89
20	0.69	0.71	0.73	0.77	0.79	0.81	0.87	0.88
25	0.70	0.71	0.73	0.77	0.79	0.81	0.86	0.87
30	0.70	0.71	0.74	0.77	0.79	0.80	0.86	0.87
35	0.71	0.72	0.74	0.77	0.79	0.80	0.85	0.86
40	0.71	0.72	0.74	0.77	0.79	0.80	0.85	0.85
45	0.72	0.73	0.75	0.77	0.79	0.80	0.84	0.85
50	0.72	0.73	0.75	0.77	0.79	0.80	0.83	0.84
55	0.73	0.74	0.75	0.77	0.79	0.79	0.83	0.83
60	0.73	0.74	0.75	0.77	0.79	0.79	0.82	0.83
65	0.74	0.75	0.76	0.77	0.78	0.79	0.82	0.82
70	0.74	0.75	0.76	0.78	0.78	0.79	0.81	0.81
75	0.75	0.76	0.77	0.78	0.78	0.79	0.81	0.81
80	0.75	0.76	0.77	0.78	0.78	0.79	0.80	0.80
85	0.76	0.76	0.77	0.78	0.78	0.78	0.79	0.80
90	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79
95	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.78
100	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.78

PACKING FACTOR = 0.59

PER CENT								
0	0.77	0.79	0.82	0.87	0.91	0.93	1.02	1.04
5	0.77	0.79	0.82	0.88	0.91	0.93	1.02	1.03
10	0.78	0.80	0.83	0.88	0.91	0.93	1.01	1.02
15	0.78	0.80	0.83	0.88	0.91	0.92	1.00	1.01
20	0.79	0.81	0.83	0.88	0.90	0.92	0.99	1.00
25	0.79	0.81	0.84	0.88	0.90	0.92	0.99	0.99
30	0.80	0.82	0.84	0.88	0.90	0.92	0.98	0.99
35	0.81	0.82	0.84	0.88	0.90	0.91	0.97	0.98
40	0.81	0.82	0.85	0.88	0.90	0.91	0.96	0.97
45	0.82	0.83	0.85	0.88	0.90	0.91	0.96	0.96
50	0.82	0.83	0.85	0.88	0.90	0.91	0.95	0.96
55	0.83	0.84	0.86	0.88	0.90	0.91	0.94	0.95
60	0.84	0.85	0.86	0.88	0.90	0.90	0.94	0.94
65	0.84	0.85	0.86	0.88	0.90	0.90	0.93	0.94
70	0.85	0.86	0.87	0.89	0.89	0.90	0.92	0.93
75	0.85	0.86	0.87	0.89	0.89	0.90	0.92	0.92
80	0.86	0.87	0.88	0.89	0.89	0.90	0.91	0.91
85	0.87	0.87	0.88	0.89	0.89	0.89	0.90	0.90
90	0.87	0.88	0.88	0.89	0.89	0.89	0.90	0.90
95	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.89
100	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89

PACKING FACTOR = 0.57

TABLE II

YARN BULK DENSITIES OF THE IMPORTANT COMMERCIAL FIBERS

(FIBER DEN. = 1.35)	1.14	1.17	1.22	1.30	1.32	1.39	1.52	1.54
PER CFMT				PACKING FACTOR = 0.59				
0	0.67	0.69	0.72	0.77	0.78	0.81	0.90	0.91
5	0.68	0.69	0.72	0.77	0.78	0.81	0.89	0.90
10	0.68	0.70	0.73	0.77	0.78	0.81	0.89	0.90
15	0.69	0.70	0.73	0.77	0.78	0.81	0.88	0.89
20	0.69	0.71	0.73	0.77	0.78	0.81	0.87	0.88
25	0.70	0.71	0.74	0.77	0.78	0.81	0.87	0.88
30	0.71	0.72	0.74	0.78	0.78	0.81	0.86	0.87
35	0.71	0.72	0.74	0.78	0.78	0.81	0.86	0.87
40	0.72	0.73	0.75	0.78	0.79	0.81	0.85	0.86
45	0.72	0.73	0.75	0.78	0.79	0.81	0.85	0.85
50	0.73	0.74	0.76	0.78	0.79	0.81	0.84	0.85
55	0.74	0.74	0.76	0.78	0.79	0.80	0.84	0.84
60	0.74	0.75	0.76	0.78	0.79	0.80	0.83	0.84
65	0.75	0.75	0.77	0.79	0.79	0.80	0.83	0.83
70	0.75	0.76	0.77	0.79	0.79	0.80	0.82	0.83
75	0.76	0.77	0.78	0.79	0.79	0.80	0.82	0.82
80	0.77	0.77	0.78	0.79	0.79	0.80	0.81	0.81
85	0.78	0.78	0.78	0.79	0.79	0.80	0.81	0.81
90	0.78	0.78	0.79	0.79	0.79	0.80	0.81	0.81
95	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80
100	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
PER CFMT				PACKING FACTOR = 0.67				
0	0.77	0.79	0.82	0.87	0.89	0.93	1.02	1.04
5	0.77	0.79	0.83	0.88	0.89	0.93	1.02	1.03
10	0.78	0.80	0.83	0.88	0.89	0.93	1.01	1.02
15	0.79	0.80	0.83	0.88	0.89	0.93	1.00	1.01
20	0.79	0.81	0.84	0.88	0.89	0.92	1.00	1.01
25	0.80	0.81	0.84	0.88	0.89	0.92	0.99	1.00
30	0.80	0.82	0.85	0.88	0.89	0.92	0.99	0.99
35	0.81	0.83	0.85	0.89	0.90	0.92	0.98	0.99
40	0.82	0.83	0.85	0.89	0.90	0.92	0.97	0.98
45	0.82	0.84	0.86	0.89	0.90	0.92	0.97	0.97
50	0.83	0.84	0.86	0.89	0.90	0.92	0.96	0.96
55	0.84	0.85	0.87	0.89	0.90	0.92	0.96	0.96
60	0.85	0.86	0.87	0.89	0.90	0.92	0.95	0.95
65	0.85	0.86	0.88	0.90	0.90	0.92	0.95	0.95
70	0.86	0.87	0.88	0.90	0.90	0.91	0.94	0.94
75	0.87	0.87	0.88	0.90	0.90	0.91	0.93	0.93
80	0.88	0.88	0.89	0.90	0.91	0.91	0.92	0.92
85	0.88	0.89	0.89	0.91	0.91	0.91	0.92	0.92
90	0.89	0.89	0.90	0.91	0.91	0.91	0.91	0.91
95	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.91
100	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91

TABLE 11
YARN BULK DENSITIES OF THE IMPORTANT COMMERCIAL FIBERS

FIBER DEN. = 1.381		1.14	1.17	1.22	1.30	1.32	1.35	1.52	1.54
DEN. CENT		PACKING FACTOR = 0.59							
0	0	0.67	0.69	0.72	0.77	0.78	0.80	0.90	0.91
5	5	0.68	0.70	0.72	0.77	0.78	0.80	0.89	0.90
10	10	0.68	0.70	0.73	0.77	0.78	0.80	0.89	0.90
15	15	0.69	0.71	0.73	0.77	0.78	0.80	0.88	0.89
20	20	0.70	0.71	0.74	0.78	0.79	0.80	0.88	0.89
25	25	0.70	0.72	0.74	0.78	0.79	0.80	0.87	0.88
30	30	0.71	0.72	0.75	0.78	0.79	0.80	0.87	0.88
35	35	0.72	0.73	0.75	0.78	0.79	0.80	0.87	0.87
40	40	0.72	0.74	0.75	0.79	0.79	0.80	0.86	0.87
45	45	0.73	0.74	0.76	0.79	0.79	0.80	0.86	0.86
50	50	0.74	0.75	0.76	0.79	0.80	0.81	0.85	0.86
55	55	0.74	0.75	0.77	0.79	0.80	0.81	0.85	0.85
60	60	0.75	0.76	0.77	0.79	0.80	0.81	0.85	0.85
65	65	0.76	0.77	0.78	0.80	0.80	0.81	0.84	0.84
70	70	0.77	0.77	0.78	0.80	0.80	0.81	0.84	0.84
75	75	0.77	0.78	0.79	0.80	0.81	0.81	0.83	0.84
80	80	0.78	0.79	0.79	0.80	0.81	0.81	0.83	0.83
85	85	0.79	0.79	0.80	0.81	0.81	0.81	0.83	0.83
90	90	0.80	0.80	0.80	0.81	0.81	0.81	0.82	0.82
95	95	0.81	0.81	0.81	0.81	0.81	0.81	0.82	0.82
100	100	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
FIBER DEN. = 1.381		1.14	1.17	1.22	1.30	1.32	1.35	1.52	1.54
DEN. CENT		PACKING FACTOR = 0.67							
0	0	0.77	0.79	0.82	0.87	0.89	0.91	1.02	1.04
5	5	0.77	0.79	0.83	0.88	0.89	0.91	1.02	1.03
10	10	0.78	0.80	0.83	0.88	0.89	0.91	1.01	1.02
15	15	0.79	0.81	0.84	0.89	0.89	0.91	1.01	1.02
20	20	0.79	0.81	0.84	0.89	0.90	0.91	1.00	1.01
25	25	0.80	0.82	0.85	0.89	0.90	0.91	1.00	1.01
30	30	0.81	0.83	0.85	0.89	0.90	0.91	0.99	1.00
35	35	0.82	0.83	0.86	0.89	0.90	0.92	0.99	1.00
40	40	0.82	0.84	0.86	0.90	0.90	0.92	0.98	0.99
45	45	0.83	0.85	0.87	0.90	0.91	0.92	0.98	0.99
50	50	0.84	0.85	0.87	0.90	0.91	0.92	0.97	0.98
55	55	0.85	0.86	0.88	0.90	0.91	0.92	0.97	0.97
60	60	0.86	0.87	0.88	0.91	0.91	0.92	0.96	0.97
65	65	0.87	0.87	0.89	0.91	0.91	0.92	0.96	0.96
70	70	0.87	0.88	0.89	0.91	0.92	0.92	0.96	0.96
75	75	0.88	0.89	0.90	0.92	0.92	0.92	0.95	0.95
80	80	0.89	0.90	0.91	0.92	0.92	0.92	0.95	0.95
85	85	0.90	0.90	0.91	0.92	0.92	0.93	0.94	0.94
90	90	0.91	0.91	0.92	0.92	0.92	0.93	0.94	0.94
95	95	0.92	0.92	0.92	0.93	0.93	0.93	0.93	0.93
100	100	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93

TABLE II
YARN BULK DENSITIES OF THE IMPORTANT COMMERCIAL FIBERS

(FIBRE No = 1.52)		1.14	1.17	1.22	1.30	1.32	1.35	1.38	1.54
PER CFNT		PACKING FACTOR = 0.59							
0	0	0.67	0.69	0.72	0.77	0.78	0.80	0.81	0.91
5	5	0.68	0.70	0.73	0.77	0.78	0.80	0.82	0.91
10	10	0.69	0.71	0.73	0.78	0.79	0.81	0.83	0.91
15	15	0.70	0.71	0.74	0.78	0.79	0.81	0.83	0.91
20	20	0.71	0.72	0.75	0.79	0.80	0.81	0.83	0.91
25	25	0.72	0.73	0.76	0.80	0.81	0.82	0.84	0.91
30	30	0.73	0.74	0.77	0.80	0.81	0.82	0.84	0.91
35	35	0.74	0.75	0.77	0.81	0.82	0.83	0.85	0.90
40	40	0.75	0.76	0.78	0.81	0.82	0.83	0.85	0.90
45	45	0.76	0.77	0.79	0.82	0.83	0.84	0.85	0.90
50	50	0.77	0.78	0.80	0.83	0.83	0.84	0.85	0.90
55	55	0.78	0.79	0.81	0.83	0.84	0.85	0.86	0.90
60	60	0.79	0.80	0.82	0.84	0.85	0.85	0.86	0.90
65	65	0.80	0.81	0.83	0.85	0.85	0.86	0.87	0.90
70	70	0.82	0.82	0.84	0.85	0.86	0.86	0.87	0.90
75	75	0.83	0.83	0.84	0.86	0.86	0.87	0.87	0.90
80	80	0.84	0.85	0.85	0.87	0.87	0.88	0.88	0.90
85	85	0.85	0.86	0.86	0.87	0.88	0.88	0.89	0.90
90	90	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.90
95	95	0.88	0.88	0.89	0.89	0.89	0.89	0.89	0.90
100	100	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90

PER CFNT		PACKING FACTOR = 0.67							
0	0	0.77	0.79	0.82	0.87	0.89	0.91	0.93	1.04
5	5	0.78	0.80	0.83	0.88	0.89	0.91	0.93	1.04
10	10	0.79	0.81	0.84	0.89	0.90	0.92	0.94	1.04
15	15	0.80	0.82	0.85	0.89	0.91	0.92	0.94	1.03
20	20	0.81	0.83	0.85	0.90	0.91	0.93	0.95	1.03
25	25	0.82	0.84	0.86	0.91	0.92	0.93	0.95	1.03
30	30	0.83	0.85	0.87	0.91	0.92	0.94	0.96	1.03
35	35	0.84	0.86	0.88	0.92	0.93	0.95	0.96	1.03
40	40	0.85	0.87	0.89	0.93	0.94	0.95	0.96	1.03
45	45	0.86	0.88	0.90	0.94	0.94	0.96	0.97	1.03
50	50	0.88	0.89	0.91	0.94	0.95	0.96	0.97	1.03
55	55	0.90	0.91	0.92	0.95	0.96	0.97	0.98	1.03
60	60	0.92	0.93	0.94	0.96	0.96	0.97	0.99	1.03
65	65	0.93	0.94	0.94	0.97	0.97	0.98	0.99	1.03
70	70	0.94	0.94	0.95	0.97	0.98	0.99	1.00	1.03
75	75	0.95	0.95	0.96	0.98	0.99	0.99	1.00	1.03
80	80	0.96	0.97	0.98	0.99	0.99	1.00	1.00	1.03
85	85	0.97	0.98	0.99	1.00	1.00	1.00	1.01	1.02
90	90	0.99	0.99	1.00	1.01	1.01	1.01	1.01	1.02
95	95	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.02
100	100	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02

TABLE II
YARN RULY DENSITIES OF THE IMPORTANT COMMERCIAL FIBERS

(FIB. DEN. = 1.54)	1.14	1.17	1.22	1.30	1.37	1.35	1.38	1.52
PER CENT								
				PACKING FACTOR = 0.59				
0	0.67	0.69	0.72	0.77	0.78	0.80	0.81	0.90
5	0.68	0.70	0.73	0.77	0.78	0.80	0.82	0.90
10	0.69	0.71	0.74	0.78	0.79	0.81	0.82	0.90
15	0.70	0.72	0.74	0.79	0.80	0.81	0.83	0.90
20	0.71	0.73	0.75	0.79	0.80	0.82	0.83	0.90
25	0.72	0.73	0.76	0.80	0.81	0.82	0.84	0.90
30	0.73	0.74	0.77	0.80	0.81	0.83	0.84	0.90
35	0.74	0.75	0.78	0.81	0.82	0.83	0.85	0.90
40	0.75	0.76	0.79	0.82	0.83	0.84	0.85	0.90
45	0.76	0.77	0.79	0.82	0.83	0.84	0.85	0.90
50	0.77	0.78	0.80	0.83	0.84	0.85	0.86	0.90
55	0.78	0.80	0.81	0.84	0.85	0.85	0.86	0.90
60	0.80	0.81	0.82	0.85	0.85	0.86	0.87	0.90
65	0.81	0.82	0.83	0.85	0.86	0.87	0.87	0.90
70	0.82	0.83	0.84	0.86	0.87	0.87	0.88	0.91
75	0.84	0.84	0.85	0.87	0.87	0.88	0.88	0.91
80	0.85	0.85	0.86	0.88	0.88	0.88	0.89	0.91
85	0.86	0.87	0.87	0.88	0.89	0.89	0.90	0.91
90	0.88	0.88	0.89	0.89	0.90	0.90	0.90	0.91
95	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.91
100	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91

				PACKING FACTOR = 0.67				
0	0.77	0.79	0.82	0.87	0.89	0.91	0.93	1.02
5	0.78	0.80	0.83	0.88	0.89	0.91	0.93	1.02
10	0.79	0.81	0.84	0.89	0.90	0.92	0.94	1.02
15	0.80	0.82	0.85	0.90	0.91	0.93	0.94	1.02
20	0.81	0.83	0.86	0.90	0.91	0.93	0.95	1.03
25	0.82	0.84	0.87	0.91	0.92	0.94	0.95	1.03
30	0.83	0.85	0.88	0.92	0.93	0.94	0.96	1.03
35	0.84	0.86	0.89	0.93	0.94	0.95	0.96	1.03
40	0.86	0.87	0.90	0.93	0.94	0.96	0.97	1.03
45	0.87	0.88	0.91	0.94	0.95	0.96	0.97	1.03
50	0.88	0.89	0.92	0.95	0.96	0.97	0.98	1.03
55	0.90	0.91	0.93	0.96	0.96	0.97	0.99	1.03
60	0.91	0.92	0.94	0.97	0.97	0.98	0.99	1.03
65	0.92	0.93	0.95	0.97	0.98	0.99	1.00	1.03
70	0.94	0.95	0.96	0.98	0.99	0.99	1.00	1.03
75	0.95	0.96	0.97	0.99	0.99	1.00	1.01	1.03
80	0.97	0.97	0.98	1.00	1.00	1.01	1.01	1.03
85	0.98	0.99	1.00	1.01	1.01	1.01	1.02	1.03
90	1.00	1.00	1.01	1.02	1.02	1.02	1.02	1.03
95	1.02	1.02	1.02	1.03	1.03	1.03	1.03	1.03
100	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04

MAXIMUM WEAVABILITY TABLE

TABLE III. MAXIMUM FILLING COVER FACTOR IN TERMS OF WARP COVER FACTOR, BETA FACTOR, AND YARN BULK DENSITY

This table provides solutions for the maximum weavability equations (3c) for:

- A. Plain weaves, 2-harness
- B. Twills, 3-harness
- C. Twills and crowfoot, 4-harness
- D. Satens, 5-harness
- E. Oxford weave

The overall range of warp cover factors is from 8 to 62. However, depending upon the yarn bulk density and/or the weave type the range may be less than this.

Beta factors range from 0.5 to 2.0

See Sections in the body of the report for:

Computation and organization of Table III (3c)

How to use Table III (5)

Examples of use of Table III (6)

Basic assumptions and limitations of tables (7)

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PLAIN WEAVE

MAXIMUM FILLING COVER FACTORS (K_F) IN TERMS OF JACO COVER FACTOR AND BETA

WARP RILEX DENSITY = 0.54

PLAIN WEAWE FABRICS

BETA



WARP
COVER
FACTOR
(K_F)

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY = 0.56

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.58

PLAIN WFAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.2	18.9	17.5	16.9	16.6	16.4	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	16.6	15.9	15.6	15.5	15.5	15.6	15.7	
11	0.0	0.0	0.0	0.0	0.0	0.0	17.0	15.2	14.7	14.6	14.6	14.7	14.9	15.0	15.2	15.4	
12	0.0	0.0	0.0	0.0	16.8	14.2	13.7	13.7	13.8	13.9	14.1	14.3	14.6	14.8	15.0	15.2	
13	0.0	0.0	0.0	13.6	12.8	12.7	12.8	13.1	13.3	13.6	13.9	14.1	14.4	14.6	14.8	15.1	
14	0.0	17.6	12.0	11.7	11.8	12.1	12.4	12.8	13.1	13.4	13.7	14.0	14.3	14.5	14.8	15.0	
15	14.0	10.7	10.7	11.0	11.4	11.8	12.2	12.6	12.9	13.3	13.6	13.9	14.2	14.5	14.7	15.0	
16	9.5	9.7	10.1	10.6	11.1	11.6	12.0	12.4	12.8	13.2	13.5	13.9	14.1	14.4	14.7	14.9	
17	8.6	9.2	9.8	10.4	11.0	11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.1	14.4	14.7	14.9	
18	8.2	9.0	9.6	10.3	10.9	11.4	11.9	12.3	12.7	13.1	13.5	13.8	14.1	14.4	14.6	14.9	
19	8.0	8.8	9.5	10.2	10.8	11.3	11.8	12.3	12.7	13.1	13.4	13.8	14.1	14.4	14.6	14.9	
20	7.8	8.7	9.4	10.1	10.7	11.3	11.8	12.2	12.7	13.1	13.4	13.7	14.1	14.3	14.6	14.9	
21	7.7	8.6	9.4	10.1	10.7	11.2	11.8	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.9	
22	7.7	8.6	9.3	10.0	10.7	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.9	
23	7.6	8.5	9.3	10.0	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
24	7.6	8.5	9.3	10.0	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
25	7.6	8.5	9.3	10.0	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
26	7.5	8.4	9.2	10.0	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
27	7.5	8.4	9.2	9.9	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
28	7.5	8.4	9.2	9.9	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
29	7.5	8.4	9.2	9.9	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
30	7.5	8.4	9.2	9.9	10.6	11.1	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
31	7.5	8.4	9.2	9.9	10.6	11.1	11.7	12.1	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	
32	7.5	8.4	9.2	9.9	10.6	11.1	11.7	12.1	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	

MAXIMUM FILLING COVER FACTORS (K₂) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.65

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K ₁)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.66

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																			
	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	14.9	11.4	11.4	11.7	12.1	12.6	13.0	13.4	13.6	13.2	13.2	13.4	13.8	14.2	14.5	14.8	15.1	15.4	15.7	16.0
17	10.2	10.3	10.8	11.3	11.9	12.4	12.8	13.3	13.7	14.1	14.4	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.2
18	9.3	9.0	10.5	11.1	11.7	12.2	12.7	13.2	13.6	14.0	14.4	14.7	15.1	15.4	15.6	15.9	16.2	16.5	16.8	17.1
19	8.8	9.6	10.3	11.0	11.6	12.2	12.7	13.1	13.6	14.0	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1
20	8.6	9.4	10.2	10.9	11.5	12.1	12.6	13.1	13.5	14.0	14.3	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1
21	8.4	9.3	10.1	10.8	11.5	12.0	12.6	13.1	13.5	13.9	14.3	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1
22	8.3	9.2	10.0	10.8	11.4	12.0	12.6	13.0	13.5	13.9	14.3	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1
23	8.2	9.2	10.0	10.7	11.4	12.0	12.5	13.0	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.8	16.1	16.4	16.7	17.0
24	8.2	9.1	9.9	10.7	11.4	12.0	12.5	13.0	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.8	16.1	16.4	16.7	17.0
25	8.1	9.1	9.9	10.7	11.3	11.9	12.5	13.0	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.8	16.1	16.4	16.7	17.0
26	8.1	9.0	9.9	10.6	11.3	11.9	12.5	13.0	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.8	16.1	16.4	16.7	17.0
27	8.1	9.0	9.9	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.3	14.6	15.0	15.3	15.6	15.8	16.1	16.4	16.7	17.0
28	8.0	9.0	9.9	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.3	14.6	15.0	15.3	15.6	15.8	16.1	16.4	16.7	17.0
29	8.0	9.0	9.8	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.3	14.6	15.0	15.3	15.6	15.8	16.1	16.4	16.7	17.0
30	8.0	9.0	9.8	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.3	14.6	15.0	15.3	15.6	15.8	16.1	16.4	16.7	17.0
31	8.0	9.0	9.8	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.2	14.6	14.9	15.3	15.6	15.8	16.1	16.4	16.7	17.0
32	8.0	9.0	9.8	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.2	14.6	14.9	15.3	15.6	15.8	16.1	16.4	16.7	17.0

MAXIMUM FILLING COVER FACTORS (K₂) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.67

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K ₁)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	21.0	19.5	18.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	20.3	14.5	17.9	17.5	17.4	17.3	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	18.2	17.0	16.6	16.5	16.5	16.5	16.4	16.4	
13	0.0	0.0	0.0	0.0	0.0	22.7	17.1	15.8	15.6	15.5	15.5	15.7	15.9	16.1	16.3	16.5	
14	0.0	0.0	0.0	0.0	17.1	15.0	14.6	14.6	14.7	14.9	15.1	15.4	15.6	15.9	16.1	16.3	
15	0.0	0.0	0.0	14.5	13.7	13.6	13.8	14.0	14.3	14.6	14.9	15.2	15.4	15.7	16.0	16.2	
16	0.0	21.5	13.0	12.6	12.7	13.0	13.4	13.7	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.1	
17	12.2	11.7	11.5	11.3	12.3	12.7	13.1	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.9	16.1	
18	10.5	10.5	10.3	11.5	12.0	12.5	13.0	13.4	13.8	14.2	14.6	14.9	15.2	15.5	15.8	16.0	
19	9.6	10.0	10.6	11.2	11.4	12.3	12.9	13.3	13.7	14.1	14.5	14.9	15.2	15.5	15.8	16.0	
20	8.9	9.7	10.6	11.1	11.7	12.3	12.9	13.3	13.7	14.1	14.5	14.8	15.1	15.5	15.7	16.0	
21	8.7	9.5	10.3	11.0	11.6	12.2	12.7	13.2	13.7	14.1	14.4	14.8	15.1	15.4	15.7	16.0	
22	8.5	9.4	10.2	10.9	11.6	12.1	12.7	13.2	13.6	14.0	14.4	14.8	15.1	15.4	15.7	16.0	
23	8.4	9.3	10.1	10.8	11.5	12.1	12.7	13.1	13.5	14.0	14.4	14.8	15.1	15.4	15.7	16.0	
24	8.3	9.2	10.1	10.8	11.5	12.1	12.6	13.1	13.6	14.0	14.4	14.8	15.1	15.4	15.7	16.0	
25	8.2	9.1	10.0	10.8	11.6	12.1	12.6	13.1	13.6	14.0	14.4	14.8	15.1	15.4	15.7	16.0	
26	8.1	9.1	10.0	10.7	11.6	12.0	12.6	13.1	13.6	14.0	14.4	14.7	15.1	15.4	15.7	16.0	
27	8.1	9.1	9.9	10.7	11.6	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9	
28	8.1	9.1	9.9	10.7	11.6	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9	
29	8.1	9.1	9.9	10.7	11.6	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9	
30	8.1	9.1	9.9	10.7	11.6	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9	
31	8.1	9.1	9.9	10.7	11.6	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9	
32	8.1	9.1	9.9	10.7	11.6	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.68

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.59

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.5	22.8	20.5	19.5
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	19.4	18.4	18.0	17.8	17.7	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	17.8	17.1	16.9	16.9	16.9	17.0	17.1
12	0.0	0.0	0.0	0.0	0.0	0.0	18.6	16.6	16.1	15.9	16.0	16.1	16.2	16.4	16.6	16.8
13	0.0	0.0	0.0	0.0	19.6	15.8	15.1	15.0	15.1	15.2	15.4	15.7	15.9	16.1	16.3	16.6
14	0.0	0.0	0.0	15.7	14.2	14.0	14.1	14.3	14.6	14.9	15.2	15.4	15.7	16.0	16.2	16.4
15	0.0	0.0	13.8	13.0	13.1	13.3	13.6	14.0	14.3	14.7	15.0	15.3	15.6	15.9	16.1	16.4
16	0.0	12.4	11.9	12.1	12.5	12.9	13.4	13.8	14.2	14.5	14.9	15.2	15.5	15.8	16.1	16.3
17	11.2	10.9	11.2	11.7	12.2	12.7	13.2	13.6	14.0	14.4	14.8	15.1	15.4	15.7	16.0	16.3
18	9.8	10.2	10.8	11.4	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	16.0	16.3
19	9.2	9.9	10.6	11.3	11.9	12.5	13.0	13.5	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.2
20	8.9	9.7	10.5	11.2	11.8	12.4	12.9	13.4	13.9	14.3	14.7	15.0	15.4	15.7	16.0	16.2
21	8.7	9.6	10.4	11.1	11.7	12.3	12.9	13.4	13.8	14.3	14.6	15.0	15.3	15.7	15.9	16.2
22	8.5	9.5	10.3	11.0	11.7	12.3	12.8	13.4	13.8	14.2	14.6	15.0	15.3	15.6	15.9	16.2
23	8.4	9.4	10.2	11.0	11.7	12.3	12.8	13.3	13.8	14.2	14.6	15.0	15.3	15.6	15.9	16.2
24	8.4	9.3	10.2	10.9	11.6	12.2	12.8	13.3	13.8	14.2	14.6	15.0	15.3	15.6	15.9	16.2
25	8.3	9.3	10.2	10.9	11.6	12.2	12.8	13.3	13.8	14.2	14.6	15.0	15.3	15.6	15.9	16.2
26	8.3	9.3	10.1	10.9	11.6	12.2	12.8	13.3	13.8	14.2	14.6	15.0	15.3	15.6	15.9	16.2
27	8.3	9.2	10.1	10.9	11.6	12.2	12.8	13.3	13.8	14.2	14.6	15.0	15.3	15.6	15.9	16.
28	8.2	9.2	10.1	10.9	11.6	12.2	12.8	13.3	13.7	14.2	14.6	15.0	15.3	15.6	15.9	16.2
29	8.2	9.2	10.1	10.9	11.5	12.2	12.7	13.3	13.7	14.2	14.6	14.9	15.3	15.6	15.9	16.2
30	8.2	9.2	10.1	10.8	11.5	12.2	12.7	13.3	13.7	14.2	14.6	14.9	15.3	15.6	15.9	16.2
31	8.2	9.2	10.1	10.8	11.5	12.2	12.7	13.3	13.7	14.2	14.6	14.9	15.3	15.6	15.9	16.2
32	8.2	9.2	10.0	10.8	11.5	12.2	12.7	13.3	13.7	14.2	14.6	14.9	15.3	15.6	15.9	16.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.70

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	20.0	18.8	18.3	18.0	17.9			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	18.2	17.4	17.1	17.0	17.1	17.1	17.2			
12	0.0	0.0	0.0	0.0	0.0	0.0	19.5	17.0	16.3	16.1	16.1	16.2	16.4	16.5	16.7	16.9			
13	0.0	0.0	0.0	0.0	22.2	16.2	15.4	15.2	15.2	15.4	15.6	15.8	16.0	16.3	16.5	16.7			
14	0.0	0.0	0.0	16.6	14.5	14.2	14.3	14.5	14.7	15.0	15.3	15.6	15.8	16.1	16.3	16.6			
15	0.0	0.0	14.4	13.3	13.2	13.5	13.8	14.1	14.4	14.8	15.1	15.4	15.7	16.0	16.3	16.5			
16	0.0	12.8	12.1	12.3	12.7	13.1	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.9	16.2	16.4			
17	11.6	11.1	11.4	11.8	12.3	12.8	13.3	13.7	14.2	14.5	14.9	15.2	15.6	15.9	16.1	16.4			
18	9.9	10.4	11.0	11.6	12.1	12.7	13.2	13.6	14.1	14.5	14.9	15.2	15.5	15.8	16.1	16.4			
19	9.3	10.0	10.7	11.4	12.0	12.6	13.1	13.6	14.0	14.4	14.8	15.2	15.5	15.8	16.1	16.4			
20	9.0	9.8	10.6	11.2	11.9	12.5	13.0	13.5	14.0	14.4	14.8	15.1	15.5	15.8	16.1	16.3			
21	8.8	9.6	10.5	11.2	11.8	12.4	13.0	13.5	13.9	14.4	14.8	15.1	15.5	15.8	16.1	16.3			
22	8.6	9.5	10.4	11.1	11.8	12.4	12.9	13.5	13.9	14.3	14.7	15.1	15.4	15.8	16.1	16.3			
23	8.5	9.5	10.3	11.1	11.7	12.4	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
24	8.4	9.4	10.3	11.0	11.7	12.3	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
25	8.4	9.4	10.2	11.0	11.7	12.3	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
26	8.3	9.3	10.2	11.0	11.7	12.3	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
27	8.3	9.3	10.2	11.0	11.7	12.3	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
28	8.3	9.3	10.2	10.9	11.6	12.3	12.8	13.4	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
29	8.3	9.3	10.1	10.9	11.6	12.3	12.8	13.4	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
30	8.3	9.3	10.1	10.9	11.6	12.3	12.8	13.4	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
31	8.2	9.2	10.1	10.9	11.6	12.3	12.8	13.4	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3			
32	8.2	9.2	10.1	10.9	11.6	12.3	12.8	13.4	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND KFTA

YARN RULK DENSITY = 0.71

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.72

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	19.1	15.2	14.7	14.6	14.8	15.0	15.3	15.6	15.8	16.1	16.3	16.6
15	0.0	0.0	15.8	13.8	13.6	13.8	14.0	14.4	14.7	15.0	15.4	15.7	16.0	16.2	16.5	16.7
16	0.0	14.0	12.6	12.5	13.3	13.7	14.1	14.5	14.9	15.2	15.6	15.9	16.2	16.4	16.7	
17	12.8	11.5	11.7	12.1	12.6	13.1	13.5	14.0	14.4	14.8	15.1	15.5	15.8	16.1	16.4	16.7
18	10.3	10.7	11.2	11.8	12.3	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.8	16.1	16.4	16.6
19	9.6	10.2	10.9	11.6	12.2	12.8	13.3	13.8	14.2	14.6	15.0	15.4	15.7	16.0	16.3	16.6
20	9.2	10.0	10.8	11.5	12.1	12.7	13.2	13.7	14.2	14.6	15.0	15.4	15.7	16.0	16.3	16.6
21	8.9	9.8	10.6	11.4	12.0	12.6	13.2	13.7	14.1	14.6	15.0	15.3	15.7	16.0	16.3	16.6
22	8.8	9.7	10.5	11.3	12.0	12.6	13.1	13.7	14.1	14.6	15.0	15.3	15.7	16.0	16.3	16.6
23	8.7	9.6	10.5	11.2	11.9	12.5	13.1	13.6	14.1	14.5	14.9	15.3	15.7	16.0	16.3	16.6
24	8.6	9.6	10.4	11.2	11.9	12.5	13.1	13.6	14.1	14.5	14.9	15.3	15.6	16.0	16.3	16.5
25	8.5	9.5	10.4	11.2	11.9	12.5	13.1	13.6	14.1	14.5	14.9	15.3	15.6	16.0	16.3	16.5
26	8.5	9.5	10.4	11.1	11.8	12.5	13.1	13.6	14.1	14.5	14.9	15.3	15.6	16.0	16.3	16.5
27	8.4	9.4	10.3	11.1	11.8	12.5	13.0	13.6	14.1	14.5	14.9	15.3	15.6	16.0	16.3	16.5
28	8.4	9.4	10.3	11.1	11.8	12.5	13.0	13.6	14.0	14.5	14.9	15.3	15.6	15.9	16.3	16.5
29	8.4	9.4	10.3	11.1	11.8	12.4	13.0	13.6	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
30	8.4	9.4	10.3	11.1	11.8	12.4	13.0	13.6	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
31	8.4	9.4	10.3	11.1	11.8	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
32	8.3	9.4	10.3	11.1	11.8	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
33	8.3	9.4	10.3	11.1	11.8	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
34	8.3	9.3	10.3	11.1	11.8	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
35	9.3	9.3	10.2	11.0	11.8	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
36	8.3	9.3	10.2	11.0	11.8	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
37	8.3	9.3	10.2	11.0	11.8	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5
38	8.3	9.3	10.2	11.0	11.8	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

WARP BULK DENSITY = 0.73

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	10.0	10.0	10.0	11.7	15.6	14.9	14.8	14.9	15.2	15.4	15.7	15.7	15.2	16.5	16.7	17.0
15	10.0	10.0	10.9	14.1	13.8	13.9	14.2	14.5	14.8	15.2	15.5	15.8	16.1	16.4	16.6	16.9
16	10.0	10.9	12.9	12.8	13.4	13.4	13.8	14.2	14.6	15.0	15.3	15.7	16.0	16.3	16.4	16.8
17	10.0	11.7	11.8	12.2	12.7	13.2	13.6	14.1	14.5	14.9	15.2	15.5	15.9	16.2	16.5	16.8
18	10.0	12.8	11.3	11.9	12.5	13.0	13.5	14.0	14.4	14.8	15.2	15.5	15.9	16.2	16.5	16.7
19	10.0	13.4	11.0	11.7	12.3	12.9	13.5	14.0	14.3	14.8	15.1	15.5	15.8	16.1	16.4	16.7
20	10.0	14.1	10.3	11.5	12.2	12.8	13.3	13.8	14.3	14.7	15.1	15.5	15.8	16.1	16.4	16.7
21	10.0	14.9	10.7	11.6	12.3	12.7	13.3	13.8	14.2	14.7	15.1	15.4	15.8	16.1	16.4	16.7
22	10.0	15.3	10.5	11.4	12.1	12.7	13.2	13.7	14.2	14.7	15.1	15.4	15.8	16.1	16.4	16.7
23	10.0	15.7	10.3	11.3	12.0	12.6	13.2	13.7	14.2	14.6	15.0	15.4	15.8	16.1	16.4	16.7
24	10.0	16.0	10.5	11.3	12.0	12.5	13.2	13.7	14.2	14.6	15.0	15.4	15.8	16.1	16.4	16.7
25	10.0	16.5	10.5	11.2	12.0	12.6	13.2	13.7	14.2	14.6	15.0	15.4	15.7	16.1	16.4	16.7
26	10.0	16.5	10.4	11.2	11.9	12.6	13.1	13.7	14.2	14.6	15.0	15.4	15.7	16.1	16.4	16.7
27	10.0	16.5	10.4	11.2	11.9	12.6	13.1	13.7	14.2	14.6	15.0	15.4	15.7	16.1	16.4	16.7
28	10.0	16.5	10.4	11.2	11.9	12.5	13.1	13.7	14.1	14.6	15.0	15.4	15.7	16.1	16.4	16.6
29	10.0	16.5	10.4	11.2	11.9	12.5	13.1	13.7	14.1	14.6	15.0	15.4	15.7	16.1	16.4	16.6
30	10.0	16.5	10.4	11.2	11.9	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.1	16.4	16.6
31	10.0	16.5	10.3	11.2	11.9	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.1	16.4	16.6
32	10.0	16.5	10.3	11.1	11.9	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.1	16.4	16.6
33	10.0	16.5	10.3	11.1	11.9	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.0	16.4	16.6
34	10.0	16.5	10.3	11.1	11.9	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.0	16.4	16.6
35	10.0	16.5	10.3	11.1	11.8	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.0	16.4	16.6
36	10.0	16.5	10.3	11.1	11.8	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.0	16.4	16.6
37	10.0	16.5	10.3	11.1	11.8	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.0	16.4	16.6
38	10.0	16.5	10.3	11.1	11.8	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.7	16.0	16.4	16.6

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.74

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	28.4	16.0	15.1	15.0	15.1	15.3	15.6	15.8	16.1	16.3	16.6	16.8	17.1
15	0.0	0.0	19.4	14.4	14.0	14.1	14.3	14.6	15.0	15.3	15.6	15.9	16.2	16.5	16.7	17.0
16	0.0	16.0	13.1	13.0	13.2	13.6	14.0	14.4	14.7	15.1	15.5	15.8	16.1	16.4	16.7	16.9
17	14.9	12.0	12.0	12.4	12.8	13.3	13.7	14.2	14.6	15.0	15.4	15.7	16.0	16.3	16.6	16.9
18	10.8	11.0	11.4	12.0	12.6	13.1	13.6	14.1	14.5	14.9	15.3	15.6	16.0	16.3	16.6	16.9
19	9.9	10.5	11.1	11.8	12.4	13.0	13.5	14.0	14.4	14.9	15.2	15.6	15.9	16.3	16.6	16.9
20	9.4	10.2	10.9	11.6	12.3	12.9	13.4	13.9	14.4	14.8	15.2	15.6	15.9	16.2	16.5	16.8
21	9.1	10.0	10.8	11.5	12.2	12.8	13.4	13.9	14.4	14.8	15.2	15.6	15.9	16.2	16.5	16.8
22	8.9	9.9	10.7	11.5	12.1	12.8	13.3	13.8	14.3	14.8	15.2	15.5	15.9	16.2	16.5	16.8
23	8.8	9.8	10.6	11.4	12.1	12.7	13.3	13.8	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8
24	8.7	9.7	10.6	11.4	12.1	12.7	13.3	13.8	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8
25	8.7	9.7	10.5	11.3	12.0	12.7	13.3	13.8	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8
26	8.6	9.6	10.5	11.3	12.0	12.7	13.2	13.8	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8
27	8.6	9.6	10.5	11.3	12.0	12.6	13.2	13.8	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
28	8.5	9.6	10.5	11.3	12.0	12.6	13.2	13.8	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
29	8.5	9.5	10.4	11.2	12.0	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
30	8.5	9.5	10.4	11.2	12.0	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
31	8.5	9.5	10.4	11.2	12.0	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
32	8.5	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
33	8.5	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
34	8.4	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
35	8.4	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
36	8.4	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
37	8.4	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
38	8.4	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.75

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
15	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
16	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
17	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
18	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
19	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
20	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
21	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
22	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
23	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
24	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
25	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
26	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
27	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
28	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
29	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
30	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
31	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
32	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
33	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
34	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
35	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
36	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
37	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0
38	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.76

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	17.1	15.7	15.4	15.4	15.6	15.8	16.1	16.3	16.6	16.9	17.1	17.3	
15	0.0	0.0	31.0	15.2	14.4	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.2	
16	0.0	21.3	13.8	13.4	13.5	13.8	14.2	14.6	15.0	15.3	15.7	16.0	16.3	16.6	16.9	17.2	
17	25.1	12.5	12.3	12.6	13.1	13.5	14.0	14.4	14.8	15.2	15.6	15.9	16.3	16.6	16.9	17.1	
18	11.4	11.3	11.7	12.2	12.8	13.3	13.8	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.1	
19	10.2	10.7	11.4	12.0	12.6	13.2	13.7	14.2	14.6	15.1	15.5	15.8	16.2	16.5	16.8	17.1	
20	9.0	10.4	11.1	11.8	12.5	13.1	13.6	14.1	14.6	15.0	15.4	15.8	16.1	16.5	16.8	17.0	
21	9.3	10.2	11.0	11.7	12.4	13.0	13.6	14.1	14.6	15.0	15.4	15.8	16.1	16.4	16.7	17.0	
22	9.1	10.0	10.9	11.6	12.3	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.1	16.4	16.7	17.0	
23	9.0	9.9	10.8	11.6	12.3	12.9	13.5	14.0	14.5	14.9	15.4	15.7	16.1	16.4	16.7	17.0	
24	8.9	9.9	10.7	11.5	12.2	12.9	13.5	14.0	14.5	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
25	8.5	9.8	10.7	11.5	12.2	12.9	13.4	14.0	14.5	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
26	8.7	9.8	10.7	11.5	12.2	12.8	13.4	14.0	14.5	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
27	8.7	9.7	10.6	11.4	12.2	12.8	13.4	14.0	14.4	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
28	8.7	9.7	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
29	8.6	9.7	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
30	8.6	9.7	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
31	8.5	9.6	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
32	8.6	9.6	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
33	8.6	9.6	10.5	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
34	8.6	9.6	10.5	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
35	8.6	9.6	10.5	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
36	8.5	9.6	10.5	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
37	8.5	9.6	10.5	11.3	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
38	8.5	9.6	10.5	11.3	12.1	12.7	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.77

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
14	0.0	0.0	0.0	0.0	17.8	16.0	15.6	15.6	15.8	16.0	16.2	16.5	16.7	17.0	17.2	17.5			
15	0.0	0.0	0.0	15.6	14.7	14.6	14.9	15.0	15.3	15.7	16.0	16.3	16.6	16.8	17.1	17.4			
16	0.0	0.0	14.1	13.6	13.7	14.0	14.3	14.7	15.1	15.5	15.8	16.1	16.4	16.7	17.0	17.3			
17	0.0	12.9	12.5	12.8	13.2	13.6	14.1	14.5	14.9	15.3	15.7	16.0	16.4	16.7	17.0	17.2			
18	11.7	11.4	11.8	12.4	12.9	13.4	13.9	14.4	14.8	15.2	15.6	16.0	16.3	16.6	16.9	17.2			
19	10.3	10.8	11.0	12.1	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9	17.2			
20	9.7	10.5	11.2	11.9	12.0	13.2	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.6	16.9	17.2			
21	9.4	10.3	11.1	11.8	12.5	13.1	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.6	16.9	17.1			
22	9.2	10.1	11.0	11.7	12.4	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.2	16.5	16.8	17.1			
23	9.0	10.0	10.9	11.7	12.4	13.0	13.6	14.1	14.6	15.0	15.5	15.8	16.2	16.5	16.8	17.1			
24	8.9	9.9	10.8	11.6	12.3	13.0	13.6	14.1	14.6	15.0	15.4	15.8	16.2	16.5	16.8	17.1			
25	8.9	9.9	10.8	11.6	12.3	13.0	13.6	14.1	14.6	15.0	15.4	15.8	16.2	16.5	16.8	17.1			
26	8.8	9.8	10.7	11.5	12.3	13.0	13.6	14.1	14.6	15.0	15.4	15.8	16.2	16.5	16.8	17.1			
27	8.8	9.8	10.7	11.5	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1			
28	8.7	9.8	10.7	11.5	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1			
29	8.7	9.7	10.7	11.5	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1			
30	8.7	9.7	10.6	11.5	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1			
31	8.7	9.7	10.6	11.5	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1			
32	8.6	9.7	10.6	11.5	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1			
33	8.6	9.7	10.6	11.4	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1			
34	8.6	9.7	10.6	11.4	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1			
35	8.6	9.7	10.6	11.4	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1			
36	8.6	9.7	10.6	11.4	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1			
37	8.6	9.7	10.6	11.4	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1			
38	8.6	9.7	10.6	11.4	12.2	13.0	13.6	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.78

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	18.6	16.3	15.8	15.9	15.9	16.1	16.4	16.6	16.9	17.1	17.4	17.6
15	0.0	0.0	0.0	17.1	14.9	14.8	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.2	17.5
16	0.0	0.0	14.5	13.8	13.8	14.1	14.5	14.8	15.2	15.6	15.9	16.3	16.6	16.9	17.1	17.4
17	0.0	13.2	12.7	12.9	13.3	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.5	16.8	17.1	17.4
18	12.1	11.6	12.0	12.5	13.0	13.5	14.0	14.5	14.9	15.3	15.7	16.1	16.4	16.7	17.0	17.3
19	10.5	11.0	11.6	12.2	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	17.3
20	9.3	10.6	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	16.0	16.4	16.7	17.0	17.3
21	9.5	10.4	11.2	11.9	12.6	13.2	13.8	14.3	14.8	15.2	15.6	16.0	16.3	16.7	17.0	17.3
22	9.3	10.2	11.0	11.8	12.5	13.1	13.7	14.2	14.7	15.2	15.6	16.0	16.3	16.6	17.0	17.2
23	9.1	10.1	11.0	11.7	12.4	13.1	13.7	14.2	14.7	15.1	15.6	15.9	16.3	16.6	16.9	17.2
24	9.0	10.0	10.9	11.7	12.4	13.1	13.6	14.2	14.7	15.1	15.5	15.9	16.3	16.6	16.9	17.2
25	8.9	10.0	10.9	11.7	12.4	13.0	13.6	14.2	14.7	15.1	15.5	15.9	16.3	16.6	16.9	17.2
26	8.9	9.9	10.8	11.6	12.4	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
27	8.8	9.9	10.8	11.6	12.3	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
28	8.8	9.8	10.8	11.6	12.3	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
29	8.8	9.8	10.7	11.6	12.3	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
30	8.7	9.5	10.7	11.5	12.3	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
31	8.7	9.8	10.7	11.5	12.3	12.9	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
32	8.7	9.8	10.7	11.5	12.3	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
33	8.7	9.8	10.7	11.5	12.3	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
34	8.7	9.7	10.7	11.5	12.3	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2
35	8.7	9.7	10.7	11.5	12.3	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2
36	8.7	9.7	10.7	11.5	12.2	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2
37	8.7	9.7	10.7	11.5	12.2	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2
38	8.6	9.7	10.7	11.5	12.2	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.79

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.80

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	21.1	17.0	16.3	16.1	16.2	16.4	16.6	16.9	17.1	17.4	17.6	17.9	
15	0.0	0.0	0.0	17.4	15.5	15.2	15.2	15.5	15.7	16.0	16.3	16.6	16.9	17.2	17.5	17.7	
16	0.0	0.0	15.5	14.2	14.4	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.1	17.4	17.6		
17	0.0	14.1	13.1	13.2	13.6	14.0	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	17.3	17.6	
18	13.1	12.0	12.3	12.7	13.2	13.7	14.2	14.7	15.1	15.6	15.9	16.3	16.5	17.0	17.3	17.5	
19	10.9	11.2	11.8	12.4	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.5	16.9	17.2	17.5	
20	10.1	10.8	11.5	12.2	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.2	16.6	16.9	17.2	17.5	
21	9.7	10.5	11.3	12.1	12.8	13.4	13.9	14.5	15.0	15.4	15.8	16.2	16.5	16.9	17.2	17.5	
22	9.4	10.4	11.2	12.0	12.7	13.3	13.9	14.4	14.9	15.4	15.8	16.2	16.5	16.9	17.2	17.5	
23	9.3	10.3	11.1	11.9	12.6	13.3	13.9	14.4	14.9	15.3	15.8	16.2	16.5	16.9	17.2	17.5	
24	9.2	10.2	11.1	11.9	12.6	13.2	13.8	14.4	14.9	15.3	15.7	16.1	16.5	16.8	17.2	17.5	
25	9.1	10.1	11.0	11.8	12.5	13.2	13.8	14.3	14.9	15.3	15.7	16.1	16.5	16.8	17.2	17.4	
26	9.0	10.0	11.0	11.8	12.5	13.2	13.8	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
27	9.0	10.0	10.9	11.8	12.5	13.2	13.8	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
28	8.9	10.0	10.9	11.7	12.5	13.1	13.8	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
29	8.9	9.9	10.9	11.7	12.5	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
30	8.9	9.9	10.9	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
31	8.8	9.9	10.8	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
32	8.8	9.9	10.8	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
33	8.8	9.9	10.8	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
34	8.8	9.9	10.8	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
35	8.8	9.9	10.8	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
36	8.8	9.9	10.8	11.6	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
37	8.8	9.8	10.8	11.6	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
38	8.8	9.8	10.8	11.6	12.4	13.1	13.7	14.3	14.8	15.2	15.7	16.1	16.5	16.8	17.1	17.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.91

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	RFTA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	23.3	17.4	16.5	16.3	16.4	16.6	16.8	17.0	17.2	17.5	17.7	18.0
15	0.0	0.0	0.0	18.3	15.8	15.4	15.4	15.6	15.9	16.2	16.5	16.8	17.0	17.3	17.6	17.8
16	0.0	0.0	16.1	14.5	14.3	14.5	14.9	15.2	15.6	15.9	16.3	16.6	16.9	17.2	17.5	17.8
17	0.0	14.7	13.3	13.4	13.7	14.1	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1	17.4	17.7
18	13.7	12.2	12.4	12.8	13.3	13.9	14.3	14.8	15.3	15.7	16.1	16.4	16.8	17.1	17.4	17.7
19	11.1	11.4	11.9	12.5	13.1	13.7	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	17.6
20	10.2	10.9	11.6	12.3	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.7	17.0	17.3	17.6
21	9.8	10.6	11.4	12.2	12.8	13.5	14.0	14.6	15.1	15.5	15.9	16.3	16.7	17.0	17.3	17.6
22	9.5	10.5	11.3	12.1	12.8	13.4	14.0	14.5	15.0	15.4	15.9	16.3	16.6	17.0	17.3	17.6
23	9.4	10.3	11.2	12.0	12.7	13.4	13.9	14.5	15.0	15.4	15.9	16.3	16.6	17.0	17.3	17.6
24	9.2	10.2	11.1	11.9	12.7	13.3	13.9	14.5	15.0	15.4	15.8	16.2	16.6	16.9	17.3	17.6
25	9.1	10.2	11.1	11.9	12.6	13.3	13.9	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.3	17.6
26	9.1	10.1	11.0	11.9	12.6	13.3	13.9	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.3	17.6
27	9.0	10.1	11.0	11.8	12.6	13.2	13.9	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5
28	9.0	10.0	11.0	11.8	12.6	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5
29	8.9	10.0	11.0	11.8	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5
30	8.9	10.0	10.9	11.8	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5
31	8.9	10.0	10.9	11.8	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5
32	8.9	10.0	10.9	11.8	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5
33	8.9	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5
34	8.9	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5
35	8.8	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.3	15.8	16.2	16.6	16.9	17.2	17.5
36	8.8	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.3	15.8	16.2	16.6	16.9	17.2	17.5
37	8.8	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.3	15.8	16.2	16.6	16.9	17.2	17.5
38	8.8	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.3	15.8	16.2	16.6	16.9	17.2	17.5

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.82

PLAIN WEAVE FABRICS

WARD COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	27.6	17.8	16.9	16.5	16.5	16.7	16.9	17.1	17.4	17.6	17.9	18.1	
15	0.0	0.0	0.0	19.5	16.1	15.6	15.6	15.7	16.0	16.3	16.6	16.9	17.2	17.4	17.7	18.0	
16	0.0	0.0	16.9	14.7	14.5	14.7	15.0	15.3	15.7	16.0	16.4	16.7	17.0	17.3	17.6	17.9	
17	0.0	15.4	13.6	13.5	13.4	14.2	14.1	15.1	15.5	15.3	16.3	16.6	16.9	17.2	17.5	17.8	
18	14.6	12.4	12.5	13.0	13.5	14.0	14.5	14.9	15.4	15.3	16.2	16.5	16.9	17.2	17.5	17.8	
19	11.3	11.5	12.0	12.6	13.2	13.8	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.5	17.7	
20	10.4	11.0	11.7	12.4	13.1	13.7	14.2	14.7	15.2	15.6	16.0	16.4	16.8	17.1	17.4	17.7	
21	9.9	10.7	11.5	12.3	12.9	13.6	14.1	14.7	15.1	15.6	16.0	16.4	16.8	17.1	17.4	17.7	
22	9.6	10.5	11.4	12.2	12.9	13.5	14.1	14.6	15.1	15.5	16.0	16.4	16.7	17.1	17.4	17.7	
23	9.4	10.4	11.3	12.1	12.8	13.4	14.0	14.6	15.1	15.5	16.0	16.4	16.7	17.1	17.4	17.7	
24	9.3	10.3	11.2	12.0	12.7	13.4	14.0	14.6	15.1	15.5	15.9	16.3	16.7	17.1	17.4	17.7	
25	9.2	10.2	11.2	12.0	12.7	13.4	14.0	14.5	15.0	15.5	15.9	16.3	16.7	17.0	17.4	17.7	
26	9.1	10.2	11.1	11.9	12.7	13.4	14.0	14.5	15.0	15.5	15.9	16.3	16.7	17.0	17.4	17.7	
27	9.1	10.1	11.1	11.9	12.7	13.3	13.9	14.5	15.0	15.5	15.9	16.3	16.7	17.0	17.4	17.7	
28	9.0	10.1	11.0	11.9	12.6	13.3	13.9	14.5	15.0	15.5	15.9	16.3	16.7	17.0	17.3	17.7	
29	9.0	10.1	11.0	11.9	12.6	13.3	13.9	14.5	15.0	15.5	15.9	16.3	16.7	17.0	17.3	17.6	
30	9.0	10.1	11.0	11.8	12.6	13.3	13.9	14.5	15.0	15.5	15.9	16.3	16.7	17.0	17.3	17.6	
31	9.0	10.0	11.0	11.8	12.6	13.3	13.9	14.5	15.0	15.5	15.9	16.3	16.7	17.0	17.3	17.6	
32	8.9	10.0	11.0	11.8	12.6	13.3	13.9	14.5	15.0	15.5	15.9	16.3	16.7	17.0	17.3	17.6	
33	8.9	10.0	11.0	11.8	12.6	13.3	13.9	14.5	15.0	15.4	15.9	16.3	16.7	17.0	17.3	17.6	
34	8.9	10.0	11.0	11.8	12.6	13.3	13.9	14.5	15.0	15.4	15.9	16.3	16.7	17.0	17.3	17.6	
35	8.9	10.0	10.9	11.8	12.6	13.3	13.9	14.4	15.0	15.4	15.9	16.3	16.7	17.0	17.3	17.6	
36	8.9	10.0	10.9	11.8	12.6	13.3	13.9	14.4	15.0	15.4	15.9	16.3	16.7	17.0	17.3	17.6	
37	8.9	10.0	10.9	11.8	12.6	13.2	13.9	14.4	15.0	15.4	15.9	16.3	16.7	17.0	17.3	17.6	
38	8.9	10.0	10.9	11.8	12.6	13.2	13.9	14.4	15.0	15.4	15.9	16.3	16.7	17.0	17.3	17.6	

MAXIMUM FILLING COVER FACTORS (K₂) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.83

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K ₁)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.84

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K_F) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.85

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K ₁)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	3.0	0.0	0.0	0.0	0.0	0.0	19.5	17.6	17.1	17.1	17.3	17.5	17.8	18.0	18.2	18.5	
15	0.0	0.0	0.0	31.2	17.2	16.2	16.1	16.2	16.4	16.7	17.0	17.2	17.5	17.8	18.1	18.3	
16	0.0	0.0	21.5	15.7	15.1	15.2	15.4	15.7	16.1	16.4	16.7	17.1	17.4	17.7	17.9	18.2	
17	0.0	19.6	14.4	14.1	14.3	14.6	15.0	15.4	15.8	16.2	16.6	16.9	17.3	17.6	17.9	18.2	
18	23.4	13.2	13.0	13.4	13.8	14.3	14.8	15.2	15.7	16.1	16.5	16.8	17.2	17.5	17.8	18.1	
19	12.1	12.0	12.4	13.0	13.5	14.1	14.6	15.1	15.6	16.0	16.4	16.8	17.1	17.5	17.8	18.1	
20	10.8	11.4	12.0	12.7	13.3	13.9	14.5	15.0	15.5	15.9	16.4	16.7	17.1	17.4	17.8	18.0	
21	10.2	11.0	11.8	12.5	13.2	13.8	14.4	14.9	15.4	15.9	16.3	16.7	17.1	17.4	17.7	18.0	
22	9.9	10.8	11.6	12.4	13.1	13.8	14.4	14.9	15.4	15.9	16.3	16.7	17.1	17.4	17.7	18.0	
23	9.7	10.6	11.5	12.3	13.0	13.7	14.3	14.9	15.4	15.8	16.3	16.7	17.0	17.4	17.7	18.0	
24	9.5	10.5	11.4	12.3	13.0	13.7	14.3	14.8	15.3	15.8	16.2	16.6	17.0	17.4	17.7	18.0	
25	9.4	10.5	11.4	12.2	13.0	13.6	14.2	14.8	15.3	15.8	16.2	16.6	17.0	17.4	17.7	18.0	
26	9.3	10.4	11.3	12.2	12.9	13.6	14.2	14.8	15.3	15.8	16.2	16.6	17.0	17.4	17.7	18.0	
27	9.3	10.3	11.3	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.2	16.6	17.0	17.3	17.7	18.0	
28	9.2	10.3	11.3	12.1	12.9	13.6	14.2	14.9	15.3	15.8	16.2	16.6	17.0	17.3	17.7	18.0	
29	9.2	10.3	11.2	12.1	12.9	13.5	14.2	14.7	15.3	15.8	16.2	16.6	17.0	17.3	17.7	18.0	
30	9.2	10.2	11.2	12.1	12.8	13.5	14.2	14.7	15.3	15.7	16.2	16.6	17.0	17.3	17.7	18.0	
31	9.1	10.2	11.2	12.1	12.8	13.5	14.2	14.7	15.3	15.7	16.2	16.6	17.0	17.3	17.7	18.0	
32	9.1	10.2	11.2	12.0	12.8	13.5	14.2	14.7	15.3	15.7	16.2	16.6	17.0	17.3	17.7	18.0	
33	9.1	10.2	11.2	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.7	18.0	
34	9.1	10.2	11.2	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.7	18.0	
35	9.1	10.2	11.2	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.6	18.0	
36	9.1	10.2	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.6	18.0	
37	9.0	10.2	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.6	18.0	
38	9.0	10.1	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.6	18.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.95

PLAIN WEAVE FABRICS

WARD COVER FACTOR (K1)	RETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	17.7	16.5	16.3	16.3	16.5	16.3	17.1	17.4	17.6	17.9	19.2	18.4	
16	0.0	0.0	26.3	16.0	15.3	15.3	15.5	15.4	16.2	16.5	16.8	17.2	17.5	17.3	19.1	18.3	
17	0.0	24.0	14.7	14.2	14.4	14.7	15.1	15.5	15.3	16.3	16.7	17.0	17.4	17.7	18.0	18.3	
18	0.0	13.5	13.2	13.5	13.9	14.4	14.9	15.3	15.3	16.2	16.6	17.0	17.3	17.5	17.9	18.2	
19	12.4	12.1	12.5	13.1	13.6	14.2	14.7	15.2	15.7	16.1	16.5	16.9	17.2	17.6	17.9	18.2	
20	11.0	11.5	12.1	12.8	13.4	14.0	14.6	15.1	15.6	16.0	16.5	16.8	17.2	17.5	17.9	18.2	
21	10.3	11.1	11.9	12.6	13.3	13.9	14.5	15.0	15.5	16.0	16.4	16.8	17.2	17.5	17.8	18.1	
22	10.0	10.9	11.7	12.5	13.2	13.9	14.4	15.0	15.5	16.0	16.4	16.8	17.2	17.5	17.8	18.1	
23	9.8	10.7	11.6	12.4	13.1	13.8	14.4	15.0	15.5	15.9	16.4	16.8	17.1	17.5	17.8	18.1	
24	9.6	10.6	11.5	12.3	13.1	13.8	14.4	14.9	15.4	15.9	16.3	16.7	17.1	17.5	17.8	18.1	
25	9.5	10.5	11.5	12.3	13.0	13.7	14.3	14.9	15.4	15.9	16.3	16.7	17.1	17.5	17.8	18.1	
26	9.4	10.5	11.4	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.3	16.7	17.1	17.5	17.8	18.1	
27	9.3	10.4	11.4	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.3	16.7	17.1	17.4	17.8	18.1	
28	9.3	10.4	11.3	12.2	13.0	13.6	14.3	14.8	15.4	15.9	16.3	16.7	17.1	17.4	17.8	18.1	
29	9.2	10.3	11.3	12.2	12.9	13.6	14.3	14.8	15.4	15.9	16.3	16.7	17.1	17.4	17.8	18.1	
30	9.2	10.3	11.3	12.1	12.9	13.6	14.3	14.8	15.4	15.8	16.3	16.7	17.1	17.4	17.8	18.1	
31	9.2	10.3	11.3	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.4	17.8	18.1	
32	9.2	10.3	11.2	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.4	17.8	18.1	
33	9.1	10.3	11.2	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.4	17.8	18.1	
34	9.1	10.2	11.2	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.4	17.9	18.1	
35	9.1	10.2	11.2	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.4	17.8	18.1	
36	9.1	10.2	11.2	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.4	17.8	18.1	
37	9.1	10.2	11.2	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.4	17.8	18.1	
38	9.1	10.2	11.2	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.4	17.7	18.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY = 0.87

PLAIN WEAVE FARRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	21.3	18.2	17.6	17.4	17.5	17.6	17.8	19.0	18.2	19.5	18.7
15	0.0	0.0	0.0	0.0	18.2	16.7	16.4	16.5	16.7	16.9	17.2	17.5	17.8	18.0	18.3	18.5
16	0.0	0.0	0.0	16.4	15.5	15.7	16.0	16.3	16.6	17.0	17.3	17.6	17.9	18.2	18.4	
17	0.0	0.0	15.0	14.4	14.6	15.3	15.7	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.4	
18	0.0	13.8	13.4	13.6	14.0	14.5	15.0	15.4	15.9	16.3	16.7	17.1	17.4	17.7	18.0	18.3
19	12.9	12.3	12.6	13.2	13.7	14.3	14.8	15.3	15.8	16.2	16.6	17.0	17.4	17.7	18.0	18.3
20	11.2	11.6	12.2	12.9	13.5	14.1	14.7	15.2	15.7	16.1	16.5	16.9	17.3	17.7	18.0	18.3
21	10.5	11.2	12.0	12.7	13.4	14.0	14.6	15.1	15.6	16.1	16.5	16.9	17.3	17.6	17.9	18.2
22	10.1	11.0	11.8	12.6	13.3	13.9	14.5	15.1	15.6	16.1	16.5	16.9	17.3	17.6	17.9	18.2
23	9.8	10.3	11.7	12.5	13.2	13.9	14.5	15.0	15.6	16.0	16.5	16.9	17.2	17.6	17.9	18.2
24	9.7	10.7	11.6	12.4	13.2	13.8	14.4	15.0	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.2
25	9.6	10.6	11.5	12.4	13.1	13.9	14.4	15.0	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.2
26	9.5	10.5	11.5	12.3	13.1	13.8	14.4	15.0	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.2
27	9.4	10.5	11.4	12.3	13.1	13.7	14.4	14.9	15.5	16.0	16.4	16.8	17.2	17.5	17.9	18.2
28	9.3	10.4	11.4	12.3	13.0	13.7	14.4	14.9	15.5	15.9	16.4	16.8	17.2	17.5	17.9	18.2
29	9.3	10.4	11.4	12.2	13.0	13.7	14.3	14.9	15.5	15.9	16.4	16.8	17.2	17.5	17.9	18.2
30	9.3	10.4	11.4	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2
31	9.2	10.4	11.3	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2
32	9.2	10.3	11.3	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2
33	9.2	10.3	11.3	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2
34	9.2	10.3	11.3	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2
35	9.2	10.3	11.3	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2
36	9.2	10.3	11.3	12.2	12.9	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2
37	9.2	10.3	11.3	12.2	12.9	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2
38	9.1	10.3	11.3	12.1	12.9	13.6	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RFTA

YARN BULK DENSITY = 0.89

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	RFTA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	13.2	12.5	12.8	13.3	13.8	14.4	14.9	15.4	15.9	16.3	16.7	17.1	17.5	17.8	18.1	18.4	
20	11.3	11.7	12.4	13.0	13.6	14.2	14.8	15.3	15.8	16.2	16.7	17.0	17.4	17.8	18.1	18.4	
21	10.6	11.3	12.1	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.4	17.7	18.0	18.4	
22	10.2	11.1	11.9	12.7	13.4	14.0	14.6	15.2	15.7	16.1	16.6	17.0	17.4	17.7	18.0	18.3	
23	9.9	10.9	11.8	12.6	13.3	14.0	14.6	15.1	15.6	16.1	16.6	17.0	17.3	17.7	18.0	18.3	
24	9.8	10.8	11.7	12.5	13.2	13.9	14.5	15.1	15.6	16.1	16.5	16.9	17.3	17.7	18.0	18.3	
25	9.6	10.7	11.6	12.4	13.2	13.9	14.5	15.1	15.6	16.1	16.5	16.9	17.3	17.7	18.0	18.3	
26	9.5	10.6	11.5	12.4	13.2	13.9	14.5	15.1	15.6	16.1	16.5	16.9	17.3	17.7	18.0	18.3	
27	9.5	10.5	11.5	12.4	13.1	13.8	14.5	15.0	15.6	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
28	9.4	10.5	11.5	12.3	13.1	13.8	14.4	15.0	15.6	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
29	9.4	10.5	11.4	12.3	13.1	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
30	9.3	10.4	11.4	12.3	13.1	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
31	9.3	10.4	11.4	12.3	13.1	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
32	9.3	10.4	11.4	12.3	13.1	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
33	9.3	10.4	11.4	12.3	13.0	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
34	9.2	10.4	11.4	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
35	9.2	10.4	11.4	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
36	9.2	10.3	11.3	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
37	9.2	10.3	11.3	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	
38	9.2	10.3	11.3	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.89

PLAIN WEAWE FABRICS

WARP COVER FACTOR (K1)	RETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	24.1	19.0	18.0	17.8	17.9	17.9	18.1	18.3	18.5	18.7	18.9
15	0.0	0.0	0.0	0.0	19.5	17.3	16.8	16.8	17.0	17.2	17.5	17.7	18.0	18.3	18.5	18.8
16	0.0	0.0	0.0	17.3	16.0	15.8	16.0	16.2	16.5	16.9	17.2	17.5	17.8	18.1	18.4	18.7
17	0.0	0.0	15.8	14.8	14.9	15.1	15.5	15.9	16.3	16.7	17.0	17.4	17.7	18.0	18.3	18.6
18	0.0	14.6	13.7	13.9	14.3	14.7	15.2	15.7	16.1	16.5	16.9	17.3	17.6	17.9	18.3	18.5
19	13.7	12.6	12.9	13.4	14.0	14.5	15.0	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.2	18.5
20	11.5	11.9	12.5	13.1	13.7	14.3	14.9	15.4	15.9	16.3	16.8	17.2	17.5	17.9	18.2	18.5
21	10.7	11.4	12.2	12.9	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.5	17.8	18.2	18.5
22	10.3	11.2	12.0	12.8	13.5	14.1	14.7	15.3	15.8	16.2	16.7	17.1	17.5	17.8	18.1	18.4
23	10.0	11.0	11.9	12.7	13.4	14.1	14.7	15.2	15.7	16.2	16.7	17.1	17.4	17.8	18.1	18.4
24	9.8	10.8	11.8	12.6	13.3	14.0	14.6	15.2	15.7	16.2	16.6	17.0	17.4	17.8	18.1	18.4
25	9.7	10.7	11.7	12.5	13.2	14.0	14.6	15.2	15.7	16.2	16.6	17.0	17.4	17.8	18.1	18.4
26	9.6	10.7	11.6	12.5	13.2	13.9	14.6	15.1	15.7	16.2	16.6	17.0	17.4	17.8	18.1	18.4
27	9.5	10.6	11.6	12.4	13.2	13.9	14.5	15.1	15.7	16.1	16.6	17.0	17.4	17.8	18.1	18.4
28	9.5	10.6	11.5	12.4	13.2	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
29	9.4	10.5	11.5	12.4	13.2	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
30	9.4	10.5	11.5	12.4	13.2	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
31	9.4	10.5	11.5	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
32	9.3	10.5	11.5	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
33	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
34	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
35	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
36	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
37	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
38	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.0	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN TULK DENSITY = 0.90

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.91

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	31.7	19.9	13.5	18.2	18.1	18.2	19.3	18.5	18.7	19.7	19.2	
15	0.0	0.0	0.0	0.0	21.5	17.9	17.2	17.1	17.3	17.5	17.7	18.0	18.2	18.5	18.8	19.0	
16	0.0	0.0	0.0	18.5	16.5	16.2	16.3	16.5	16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.9	
17	0.0	0.0	16.9	15.3	15.2	15.4	15.7	16.1	16.5	16.9	17.2	17.6	17.9	18.2	18.5	18.8	
18	0.0	15.7	14.2	14.2	14.5	15.0	15.4	15.9	16.3	16.7	17.1	17.5	17.8	18.2	18.5	18.8	
19	15.1	13.1	13.2	13.6	14.2	14.7	15.2	15.7	16.2	16.6	17.0	17.4	17.9	18.1	18.4	18.7	
20	11.9	12.1	12.7	13.3	13.9	14.5	15.1	15.6	16.1	16.5	17.0	17.4	17.7	18.1	18.4	18.7	
21	11.0	11.6	12.4	13.1	13.7	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.7	18.0	18.4	18.7	
22	10.5	11.3	12.2	12.9	13.6	14.3	14.9	15.5	16.0	16.4	16.9	17.3	17.7	18.0	18.3	18.7	
23	10.2	11.1	12.0	12.8	13.6	14.2	14.8	15.4	15.9	16.4	16.8	17.3	17.6	18.0	18.3	18.6	
24	10.0	11.0	11.9	12.7	13.5	14.2	14.8	15.4	15.9	16.4	16.8	17.2	17.6	18.0	18.3	18.6	
25	9.8	10.9	11.8	12.7	13.4	14.1	14.8	15.3	15.9	16.4	16.8	17.2	17.6	18.0	18.3	18.6	
26	9.7	10.8	11.8	12.6	13.4	14.1	14.7	15.3	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.6	
27	9.7	10.7	11.7	12.6	13.4	14.1	14.7	15.3	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.6	
28	9.6	10.7	11.7	12.6	13.3	14.1	14.7	15.3	15.8	16.3	16.8	17.2	17.6	17.9	18.3	18.6	
29	9.5	10.7	11.6	12.5	13.3	14.0	14.7	15.3	15.8	16.3	16.8	17.2	17.6	17.9	18.3	18.6	
30	9.5	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.8	16.3	16.8	17.2	17.6	17.9	18.3	18.6	
31	9.5	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.8	16.3	16.8	17.2	17.6	17.9	18.3	18.6	
32	9.4	10.6	11.6	12.5	13.3	14.0	14.7	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
33	9.4	10.6	11.6	12.5	13.3	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
34	9.4	10.6	11.6	12.5	13.3	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
35	9.4	10.5	11.5	12.4	13.3	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
36	9.4	10.5	11.5	12.4	13.2	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
37	9.4	10.5	11.5	12.4	13.2	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
38	9.4	10.5	11.5	12.4	13.2	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.92

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	9.0	9.0	9.0	9.0	9.0	9.0	20.4	19.8	19.4	19.3	19.3	18.5	18.7	19.9	19.1	19.3
15	9.0	9.0	9.0	9.0	22.9	18.3	17.5	17.3	17.4	17.6	17.8	19.1	19.4	18.6	18.9	19.1
16	9.0	9.0	9.0	19.4	16.8	16.4	16.4	16.6	16.9	17.2	17.5	17.9	18.2	18.5	18.7	19.0
17	9.0	9.0	17.5	15.5	15.3	15.5	15.9	16.2	16.6	17.0	17.3	17.7	18.0	18.3	18.6	18.9
18	9.0	16.4	14.4	14.3	14.7	15.1	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.3	18.6	18.9
19	16.1	13.3	13.3	13.3	14.3	14.9	15.3	15.8	16.3	16.7	17.1	17.5	17.9	18.2	18.5	18.8
20	12.2	12.3	12.8	13.4	14.0	14.6	15.2	15.7	16.2	16.6	17.1	17.5	17.9	18.2	18.5	18.8
21	11.1	11.7	12.5	13.2	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.9	18.1	18.5	18.8
22	10.6	11.4	12.4	13.0	13.7	14.4	15.0	15.5	16.1	16.5	17.0	17.4	17.8	18.1	18.4	18.8
23	10.3	11.2	12.1	12.9	13.6	14.3	14.9	15.5	16.0	16.5	17.0	17.4	17.7	18.1	18.4	18.7
24	10.1	11.1	12.0	12.8	13.6	14.3	14.9	15.5	16.0	16.5	17.0	17.3	17.7	18.1	18.4	18.7
25	9.9	11.0	11.9	12.8	13.5	14.2	14.8	15.4	16.0	16.4	16.9	17.3	17.7	18.1	18.4	18.7
26	9.8	10.9	11.8	12.7	13.5	14.2	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.1	18.4	18.7
27	9.7	10.8	11.8	12.7	13.4	14.2	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.1	18.4	18.7
28	9.7	10.8	11.7	12.6	13.4	14.1	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.0	18.4	18.7
29	9.6	10.7	11.7	12.6	13.4	14.1	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.0	18.4	18.7
30	9.6	10.7	11.7	12.6	13.4	14.1	14.8	15.3	15.9	16.4	16.9	17.3	17.7	18.0	18.4	18.7
31	9.5	10.7	11.7	12.6	13.4	14.1	14.7	15.3	15.9	16.4	16.9	17.3	17.7	18.0	18.4	18.7
32	9.5	10.6	11.7	12.5	13.4	14.1	14.7	15.3	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7
33	9.5	10.6	11.6	12.5	13.3	14.1	14.7	15.3	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7
34	9.5	10.6	11.6	12.5	13.3	14.1	14.7	15.3	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7
35	9.4	10.6	11.6	12.5	13.3	14.1	14.7	15.3	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7
36	9.4	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7
37	9.4	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.9	16.4	16.8	17.3	17.6	18.0	18.4	18.7
38	9.4	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.9	16.4	16.8	17.3	17.6	18.0	18.4	18.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.93

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	21.0	19.1	18.6	18.4	18.5	18.6	18.8	19.0	19.2	19.4
15	0.0	0.0	0.0	0.0	25.0	18.6	17.7	17.5	17.6	17.7	18.0	18.2	18.5	18.7	19.0	19.2
16	0.0	0.0	0.0	20.4	17.1	16.5	16.6	16.8	17.0	17.3	17.7	18.0	18.3	18.6	18.9	19.1
17	0.0	0.0	18.4	15.8	15.5	15.7	16.0	16.3	16.7	17.1	17.5	17.8	18.1	18.5	18.8	19.0
18	0.0	17.2	14.6	14.5	14.8	15.2	15.6	16.1	16.5	16.9	17.3	17.7	18.0	18.4	18.7	19.0
19	17.6	13.5	13.5	13.0	14.4	14.0	15.4	15.9	16.4	16.8	17.2	17.6	18.0	18.3	18.6	18.9
20	12.4	12.4	12.9	13.5	14.1	14.7	15.3	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	18.9
21	11.3	11.9	12.6	13.3	13.9	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.6	18.9
22	10.7	11.5	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.1	17.5	17.9	18.2	18.5	18.9
23	10.4	11.3	12.2	13.0	13.7	14.4	15.0	15.6	16.1	16.6	17.0	17.5	17.9	18.2	18.5	18.8
24	10.1	11.1	12.1	12.9	13.7	14.3	15.0	15.5	16.1	16.6	17.0	17.4	17.8	18.2	18.5	18.8
25	10.0	11.0	12.0	12.8	13.6	14.3	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.8
26	9.9	10.9	11.9	12.7	13.6	14.3	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.8
27	9.8	10.8	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.1	18.5	18.8
28	9.7	10.7	11.7	12.7	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.1	18.5	18.8
29	9.7	10.7	11.7	12.7	13.5	14.2	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
30	9.6	10.6	11.6	12.7	13.5	14.2	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
31	9.6	10.7	11.7	12.6	13.4	14.2	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
32	9.6	10.7	11.7	12.6	13.4	14.2	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
33	9.5	10.7	11.7	12.6	13.4	14.1	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
34	9.5	10.7	11.7	12.6	13.4	14.1	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
35	9.5	10.7	11.7	12.6	13.4	14.1	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
36	9.5	10.7	11.7	12.6	13.4	14.1	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
37	9.5	10.6	11.7	12.6	13.4	14.1	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
38	9.5	10.6	11.7	12.6	13.4	14.1	14.8	15.4	16.0	16.4	16.9	17.4	17.8	18.1	18.5	18.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.34

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	3.0	3.0	3.0	3.0	3.0	3.0	21.7	19.4	18.8	18.6	18.6	18.3	18.9	19.1	19.3	19.6
15	3.0	3.0	3.0	3.0	28.8	19.0	17.9	17.7	17.9	18.1	18.3	18.6	18.9	19.1	19.4	
16	3.0	3.0	3.0	21.8	17.4	16.7	16.9	17.2	17.5	17.8	18.1	18.4	18.7	19.0	19.2	
17	3.0	3.0	19.4	16.0	15.7	15.8	16.1	16.5	16.8	17.2	17.6	17.9	18.2	18.6	18.9	19.1
18	3.0	18.4	14.9	14.7	14.9	15.3	15.3	15.2	16.6	17.0	17.4	17.8	18.1	18.5	18.8	19.1
19	20.3	13.8	13.5	14.0	14.5	15.0	15.5	16.0	16.5	16.9	17.3	17.7	18.1	18.4	18.7	19.0
20	12.7	12.6	13.0	13.6	14.2	14.8	15.4	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7	19.0
21	11.4	12.0	12.7	13.4	14.0	14.7	15.2	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.7	19.0
22	10.8	11.6	12.4	13.2	13.9	14.6	15.2	15.7	16.2	16.7	17.2	17.5	18.0	18.3	18.6	19.0
23	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.3	18.6	18.9
24	10.2	11.2	12.1	13.0	13.7	14.4	15.1	15.6	16.2	16.7	17.1	17.5	17.9	18.3	18.6	18.9
25	10.1	11.1	12.1	12.9	13.7	14.4	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.6	18.9
26	9.9	11.0	12.0	12.9	13.6	14.3	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.6	18.9
27	9.8	10.9	11.9	12.8	13.6	14.3	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.2	18.6	18.9
28	9.8	10.9	11.9	12.8	13.6	14.3	14.9	15.5	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.9
29	9.7	10.8	11.9	12.7	13.5	14.3	14.9	15.5	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.9
30	9.7	10.8	11.8	12.7	13.5	14.3	14.9	15.5	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.9
31	9.6	10.8	11.8	12.7	13.5	14.2	14.9	15.5	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.9
32	9.5	10.8	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.6	17.0	17.5	17.9	18.2	18.6	18.9
33	9.6	10.7	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.6	17.0	17.4	17.8	18.2	18.6	18.9
34	9.6	10.7	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9
35	9.6	10.7	11.7	12.7	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9
36	9.5	10.7	11.7	12.6	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9
37	9.5	10.7	11.7	12.6	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9
38	9.5	10.7	11.7	12.6	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.95

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA														
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	22.5	19.7	19.0	18.8	13.3	13.9	19.1	19.3	19.5
15	0.0	0.0	0.0	0.0	42.1	19.5	18.2	17.9	17.9	18.0	18.2	18.5	18.7	19.0	19.2
16	0.0	0.0	0.0	23.8	17.7	16.9	16.9	17.0	17.3	17.6	17.9	18.2	18.5	18.8	19.1
17	0.0	0.0	20.9	16.3	15.9	16.0	16.2	16.6	16.9	17.3	17.7	18.0	18.4	18.7	19.0
18	0.0	20.1	15.1	14.8	15.1	15.4	15.9	16.3	16.7	17.1	17.5	17.9	18.3	18.6	18.9
19	29.7	14.0	13.3	14.1	14.6	15.1	15.6	16.1	16.6	17.0	17.4	17.8	18.2	18.5	18.8
20	13.0	12.7	13.1	13.7	14.3	14.9	15.5	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8
21	11.6	12.1	12.8	13.5	14.1	14.8	15.3	15.9	16.4	16.9	17.3	17.7	18.1	18.4	18.8
22	10.9	11.7	12.5	13.3	14.0	14.6	15.3	15.8	16.3	16.8	17.3	17.7	18.1	18.4	18.8
23	10.5	11.5	12.3	13.2	13.9	14.6	15.2	15.8	16.3	16.8	17.2	17.6	18.0	18.4	18.7
24	10.3	11.3	12.2	13.1	13.8	14.5	15.1	15.7	16.3	16.7	17.2	17.6	18.0	18.4	18.7
25	10.1	11.2	12.1	13.0	13.8	14.5	15.1	15.7	16.2	16.7	17.2	17.6	18.0	18.4	18.7
26	10.0	11.1	12.1	12.9	13.7	14.4	15.1	15.7	16.2	16.7	17.2	17.6	18.0	18.4	18.7
27	9.9	11.0	12.0	12.9	13.7	14.4	15.0	15.6	16.2	16.7	17.2	17.6	18.0	18.3	18.7
28	9.8	11.0	12.0	12.8	13.6	14.4	15.0	15.6	16.2	16.7	17.1	17.6	18.0	18.3	18.7
29	9.8	10.9	11.9	12.8	13.6	14.3	15.0	15.6	16.2	16.7	17.1	17.6	18.0	18.3	18.7
30	9.7	10.9	11.9	12.8	13.6	14.3	15.0	15.6	16.2	16.7	17.1	17.6	18.0	18.3	18.7
31	9.7	10.9	11.9	12.8	13.6	14.3	15.0	15.6	16.1	16.7	17.1	17.6	18.0	18.3	18.7
32	9.7	10.8	11.8	12.8	13.6	14.3	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7
33	9.6	10.8	11.8	12.7	13.6	14.3	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7
34	9.6	10.8	11.8	12.7	13.6	14.3	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7
35	9.6	10.8	11.8	12.7	13.5	14.3	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7
36	9.6	10.8	11.8	12.7	13.5	14.3	14.9	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7
37	9.6	10.8	11.8	12.7	13.5	14.3	14.9	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7
38	9.6	10.7	11.8	12.7	13.5	14.3	14.9	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.96

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	23.5	20.1	19.2	19.0	19.0	19.0	19.2	19.4	19.6	19.8	
15	0.0	0.0	0.0	0.0	0.0	20.0	18.4	18.0	18.0	18.1	18.4	18.6	18.8	19.1	19.3	19.6	
16	0.0	0.0	0.0	27.3	18.1	17.2	17.0	17.2	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	
17	0.0	0.0	23.0	16.6	16.1	16.1	16.4	16.7	17.1	17.4	17.8	18.1	18.5	18.8	19.1	19.4	
18	0.0	23.1	15.4	15.0	15.2	15.6	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.7	19.0	19.3	
19	0.0	14.3	14.0	14.3	14.7	15.2	15.7	16.2	16.7	17.1	17.5	17.9	18.3	18.6	18.9	19.2	
20	13.3	12.9	13.3	13.8	14.4	15.0	15.6	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.9	19.2	
21	11.7	12.2	12.9	13.6	14.2	14.8	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.9	19.2	
22	11.0	11.8	12.6	13.4	14.1	14.7	15.3	15.9	16.4	16.9	17.4	17.8	18.2	18.5	18.9	19.2	
23	10.6	11.6	12.4	13.2	14.0	14.7	15.3	15.9	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.2	
24	10.4	11.4	12.3	13.1	13.9	14.6	15.2	15.8	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	
25	10.2	11.3	12.2	13.1	13.8	14.5	15.2	15.8	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	
26	10.1	11.2	12.1	13.0	13.8	14.5	15.2	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	
27	10.0	11.1	12.1	13.0	13.8	14.5	15.1	15.7	16.3	16.8	17.2	17.7	18.1	18.4	18.8	19.1	
28	9.9	11.0	12.0	12.9	13.7	14.4	15.1	15.7	16.3	16.8	17.2	17.7	18.1	18.4	18.8	19.1	
29	9.8	11.0	12.0	12.9	13.7	14.4	15.1	15.7	16.2	16.8	17.2	17.7	18.1	18.4	18.8	19.1	
30	9.6	10.9	12.0	12.9	13.7	14.4	15.1	15.7	16.2	16.7	17.2	17.6	18.1	18.4	18.8	19.1	
31	9.8	10.9	11.9	12.8	13.7	14.4	15.1	15.7	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	
32	9.7	10.9	11.9	12.8	13.6	14.4	15.1	15.7	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	
33	9.7	10.9	11.9	12.8	13.6	14.4	15.0	15.7	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	
34	9.7	10.9	11.9	12.8	13.6	14.4	15.0	15.7	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	
35	9.7	10.8	11.9	12.8	13.6	14.4	15.0	15.6	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	
36	9.6	10.8	11.9	12.8	13.6	14.4	15.0	15.6	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	
37	9.6	10.8	11.9	12.8	13.6	14.3	15.0	15.6	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	
38	9.6	10.8	11.8	12.8	13.6	14.3	15.0	15.6	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.97

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	24.7	20.5	19.5	19.2	19.1	19.2	19.3	19.5	19.7	19.9	
15	0.0	0.0	0.0	0.0	0.0	20.6	18.7	18.2	18.2	18.3	18.5	18.7	19.0	19.2	19.5	19.7	
16	0.0	0.0	0.0	39.6	18.5	17.4	17.2	17.3	17.5	17.8	18.1	18.4	18.7	19.0	19.3	19.6	
17	0.0	0.0	27.3	17.0	16.2	16.3	16.5	16.8	17.2	17.5	17.9	18.2	18.6	18.9	19.2	19.5	
18	0.0	33.4	15.7	15.2	15.3	15.7	16.1	16.5	16.9	17.3	17.7	18.1	18.5	18.8	19.1	19.4	
19	0.0	14.6	14.1	14.4	14.8	15.3	15.8	16.3	16.8	17.2	17.6	18.0	18.4	18.7	19.0	19.4	
20	13.7	13.0	13.4	13.9	14.5	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.3	18.7	19.0	19.3	
21	11.9	12.3	13.0	13.7	14.3	14.9	15.5	16.1	16.6	17.1	17.5	17.9	18.3	18.6	19.0	19.3	
22	11.1	11.9	12.7	13.5	14.2	14.8	15.4	16.0	16.5	17.0	17.4	17.9	18.3	18.6	19.0	19.3	
23	10.7	11.6	12.5	13.3	14.1	14.7	15.4	15.9	16.5	17.0	17.4	17.8	18.2	18.6	18.9	19.3	
24	10.5	11.5	12.4	13.2	14.0	14.7	15.3	15.9	16.4	16.9	17.4	17.8	18.2	18.6	18.9	19.2	
25	10.3	11.3	12.3	13.1	13.9	14.6	15.3	15.9	16.4	16.9	17.4	17.8	18.2	18.6	18.9	19.2	
26	10.1	11.2	12.2	13.1	13.9	14.6	15.2	15.8	16.4	16.9	17.3	17.8	18.2	18.5	18.9	19.2	
27	10.0	11.1	12.1	13.0	13.8	14.5	15.2	15.8	16.4	16.9	17.3	17.8	18.2	18.5	18.9	19.2	
28	10.0	11.1	12.1	13.0	13.8	14.5	15.2	15.8	16.3	16.9	17.3	17.8	18.2	18.5	18.9	19.2	
29	9.9	11.0	12.1	13.0	13.8	14.5	15.2	15.8	16.3	16.8	17.3	17.7	18.2	18.5	18.9	19.2	
30	9.9	11.0	12.0	12.9	13.8	14.5	15.2	15.8	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
31	9.8	11.0	12.0	12.9	13.7	14.5	15.1	15.8	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
32	9.8	10.9	12.0	12.9	13.7	14.5	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
33	9.8	10.9	12.0	12.9	13.7	14.5	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
34	9.7	10.9	11.9	12.9	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
35	9.7	10.9	11.9	12.9	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
36	9.7	10.9	11.9	12.9	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
37	9.7	10.9	11.9	12.8	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
38	9.7	10.9	11.9	12.8	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND SETA

YARN BULK DENSITY = 0.98

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	26.3	20.9	19.7	19.3	19.3	19.3	19.5	19.6	19.8	20.0
15	0.0	0.0	0.0	0.0	0.0	21.7	19.0	18.4	18.3	18.4	18.6	18.8	19.1	19.3	19.6	19.8
16	0.0	0.0	0.0	0.0	18.9	17.6	17.4	17.5	17.7	17.9	18.2	18.5	18.8	19.1	19.4	19.7
17	0.0	0.0	0.0	17.3	16.4	16.4	16.6	16.9	17.3	17.6	18.0	18.3	18.7	19.0	19.3	19.6
18	0.0	0.0	16.1	15.4	15.5	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6	18.9	19.2	19.5
19	0.0	15.0	14.3	14.5	14.9	15.4	15.9	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.2	19.5
20	14.2	13.2	13.5	14.0	14.6	15.2	15.7	16.3	16.8	17.2	17.6	18.0	18.4	18.8	19.1	19.4
21	12.1	12.4	13.1	13.7	14.4	15.0	15.6	16.2	16.7	17.1	17.6	18.0	18.4	18.7	19.1	19.4
22	11.3	12.0	12.8	13.5	14.3	14.9	15.5	16.1	16.6	17.1	17.5	18.0	18.3	18.7	19.1	19.4
23	10.8	11.7	12.6	13.4	14.1	14.8	15.5	16.0	16.6	17.1	17.5	17.9	18.3	18.7	19.0	19.4
24	10.5	11.5	12.5	13.3	14.1	14.8	15.4	16.0	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3
25	10.3	11.4	12.4	13.2	14.0	14.7	15.4	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3
26	10.2	11.3	12.3	13.2	13.9	14.7	15.3	15.9	16.5	17.0	17.4	17.9	18.3	18.6	19.0	19.3
27	10.1	11.2	12.2	13.1	13.9	14.6	15.3	15.9	16.4	17.0	17.4	17.9	18.3	18.6	19.0	19.3
28	10.0	11.2	12.2	13.1	13.9	14.6	15.3	15.9	16.4	16.9	17.4	17.8	18.3	18.6	19.0	19.3
29	10.0	11.1	12.1	13.0	13.8	14.6	15.3	15.9	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
30	9.9	11.1	12.1	13.0	13.8	14.6	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
31	9.9	11.0	12.1	13.0	13.8	14.6	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
32	9.8	11.0	12.0	13.0	13.8	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
33	9.8	11.0	12.0	13.0	13.8	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
34	9.8	11.0	12.0	12.9	13.8	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
35	9.8	11.0	12.0	12.9	13.8	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
36	9.8	10.9	12.0	12.9	13.8	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
37	9.7	10.9	12.0	12.9	13.7	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3
38	9.7	10.9	12.0	12.9	13.7	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.99

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	28.6	21.3	20.0	19.5	19.4	19.5	19.6	19.8	20.0	20.2	
15	0.0	0.0	0.0	0.0	0.0	22.0	19.3	18.6	18.5	18.6	18.7	19.0	19.2	19.4	19.7	19.9	
16	0.0	0.0	0.0	0.0	19.4	17.8	17.5	17.6	17.8	18.1	18.4	18.6	18.9	19.2	19.5	19.8	
17	0.0	0.0	0.0	17.7	16.7	16.6	16.8	17.1	17.4	17.8	18.1	18.4	18.8	19.1	19.4	19.7	
18	0.0	0.0	16.4	15.6	15.6	15.9	16.3	16.7	17.1	17.6	17.9	18.3	18.7	19.0	19.3	19.6	
19	0.0	15.4	14.5	14.7	15.1	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9	19.3	19.6	
20	14.7	13.4	13.6	14.2	14.7	15.3	15.8	16.4	16.9	17.3	17.7	18.1	18.5	18.9	19.2	19.5	
21	12.3	12.6	13.2	13.8	14.5	15.1	15.7	16.3	16.8	17.2	17.7	18.1	18.5	18.8	19.2	19.5	
22	11.4	12.1	12.9	13.6	14.3	15.0	15.6	16.2	16.7	17.2	17.6	18.1	18.4	18.8	19.2	19.5	
23	10.9	11.8	12.7	13.5	14.2	14.9	15.5	16.1	16.6	17.1	17.6	18.0	18.4	18.8	19.1	19.5	
24	10.6	11.6	12.5	13.4	14.1	14.8	15.5	16.1	16.6	17.1	17.6	18.0	18.4	18.8	19.1	19.4	
25	10.4	11.5	12.4	13.3	14.1	14.8	15.4	16.0	16.6	17.1	17.5	18.0	18.4	18.8	19.1	19.4	
26	10.3	11.4	12.3	13.2	14.0	14.7	15.4	16.0	16.6	17.1	17.5	18.0	18.4	18.7	19.1	19.4	
27	10.2	11.3	12.3	13.2	14.0	14.7	15.4	16.0	16.5	17.0	17.5	18.0	18.4	18.7	19.1	19.4	
28	10.1	11.2	12.2	13.1	13.9	14.7	15.4	16.0	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
29	10.0	11.2	12.2	13.1	13.9	14.7	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
30	10.0	11.1	12.2	13.1	13.9	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
31	9.9	11.1	12.1	13.1	13.9	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
32	9.9	11.1	12.1	13.0	13.9	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
33	9.9	11.0	12.1	13.0	13.9	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
34	9.8	11.0	12.1	13.0	13.8	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
35	9.8	11.0	12.1	13.0	13.8	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
36	9.8	11.0	12.1	13.0	13.8	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4	
37	9.8	11.0	12.0	13.0	13.8	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.4	
38	9.8	11.0	12.0	13.0	13.8	14.6	15.3	15.9	16.4	17.0	17.5	17.9	18.3	18.7	19.0	19.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.00

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																	
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	32.7	21.8	20.2	19.7	19.6	19.6	19.7	19.9	20.1	20.3		
15	0.0	0.0	0.0	0.0	0.0	22.9	19.6	18.8	18.7	18.7	18.9	19.1	19.3	19.6	19.8	20.0		
16	0.0	0.0	0.0	0.0	20.0	18.1	17.7	17.8	17.9	18.2	18.5	18.8	19.1	19.3	19.6	19.9		
17	0.0	0.0	0.0	18.2	16.9	16.7	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.2	19.5	19.8		
18	0.0	0.0	16.9	15.8	15.8	16.0	16.4	16.8	17.3	17.7	18.0	18.4	18.8	19.1	19.4	19.7		
19	0.0	15.8	14.7	14.8	15.2	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7	19.0	19.4	19.7		
20	15.3	13.6	13.8	14.3	14.8	15.4	15.9	16.5	16.9	17.4	17.8	18.2	18.6	19.0	19.3	19.6		
21	12.5	12.7	13.3	13.9	14.6	15.2	15.8	16.3	16.9	17.3	17.8	18.2	18.6	18.9	19.3	19.6		
22	11.5	12.2	13.0	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	19.6		
23	11.0	11.9	12.8	13.6	14.3	15.0	15.6	16.2	16.7	17.2	17.7	18.1	18.5	18.9	19.2	19.6		
24	10.7	11.7	12.6	13.5	14.2	14.9	15.6	16.2	16.7	17.2	17.7	18.1	18.5	18.9	19.2	19.5		
25	10.5	11.5	12.5	13.4	14.2	14.9	15.5	16.1	16.7	17.2	17.6	18.1	18.5	18.8	19.2	19.5		
26	10.3	11.4	12.4	13.3	14.1	14.8	15.5	16.1	16.6	17.1	17.6	18.1	18.5	18.8	19.2	19.5		
27	10.2	11.3	12.4	13.2	14.1	14.8	15.5	16.1	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5		
28	10.1	11.3	12.3	13.2	14.0	14.8	15.4	16.0	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5		
29	10.1	11.2	12.3	13.2	14.0	14.7	15.4	16.0	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5		
30	10.0	11.2	12.2	13.1	14.0	14.7	15.4	16.0	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5		
31	10.0	11.2	12.2	13.1	14.0	14.7	15.4	16.0	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5		
32	9.9	11.1	12.2	13.1	13.9	14.7	15.4	16.0	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5		
33	9.9	11.1	12.2	13.1	13.9	14.7	15.4	16.0	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5		
34	9.9	11.1	12.1	13.1	13.9	14.7	15.4	16.0	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5		
35	9.9	11.1	12.1	13.1	13.9	14.7	15.3	16.0	16.5	17.1	17.5	18.0	18.4	18.8	19.1	19.5		
36	9.9	11.1	12.1	13.1	13.9	14.7	15.3	16.0	16.5	17.1	17.5	18.0	18.4	18.8	19.1	19.5		
37	9.8	11.0	12.1	13.0	13.9	14.6	15.3	16.0	16.5	17.1	17.5	18.0	18.4	18.8	19.1	19.5		
38	9.8	11.0	12.1	13.0	13.9	14.5	15.3	16.0	16.5	17.1	17.5	18.0	18.4	18.8	19.1	19.5		

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY =1.36

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
18	0.0	0.0	0.0	0.0	38.4	23.1	21.6	21.3	21.3	21.5	21.8	22.1	22.4	22.7	23.0	23.3
19	0.0	0.0	0.0	36.0	21.7	20.5	20.3	20.5	20.7	21.1	21.4	21.8	22.2	22.5	22.8	23.2
20	0.0	0.0	0.0	20.5	19.4	19.4	19.6	20.0	20.4	20.8	21.2	21.6	22.0	22.4	22.7	23.1
21	0.0	0.0	19.6	18.4	18.4	18.7	19.2	19.6	20.1	20.6	21.0	21.5	21.9	22.3	22.6	23.0
22	0.0	19.2	17.3	17.4	17.8	18.3	18.9	19.4	19.9	20.4	20.9	21.4	21.8	22.2	22.6	22.9
23	20.9	16.3	16.3	16.9	17.4	18.0	19.6	19.2	19.8	20.3	20.8	21.3	21.7	22.1	22.5	22.9
24	15.4	15.1	15.7	16.4	17.1	17.8	18.5	19.1	19.7	20.2	20.8	21.2	21.7	22.1	22.5	22.9
25	13.9	14.5	15.3	16.1	16.9	17.7	18.4	19.0	19.6	20.2	20.7	21.2	21.6	22.1	22.5	22.8
26	13.2	14.1	15.0	15.9	16.8	17.6	18.3	18.9	19.6	20.1	20.7	21.2	21.6	22.0	22.4	22.8
27	12.8	13.8	14.9	15.8	16.7	17.5	18.2	18.9	19.5	20.1	20.6	21.1	21.6	22.0	22.4	22.8
28	12.5	13.6	14.7	15.7	16.6	17.4	18.1	18.8	19.5	20.1	20.6	21.1	21.6	22.0	22.4	22.8
29	12.3	13.5	14.6	15.6	16.5	17.3	18.1	18.8	19.4	20.0	20.5	21.1	21.5	22.0	22.4	22.8
30	12.1	13.4	14.5	15.5	16.5	17.3	18.1	18.8	19.4	20.0	20.6	21.1	21.5	22.0	22.4	22.8
31	12.0	13.3	14.4	15.5	16.4	17.3	18.0	18.7	19.4	20.0	20.5	21.0	21.5	22.0	22.4	22.8
32	11.9	13.2	14.4	15.4	16.4	17.2	18.0	18.7	19.4	20.0	20.5	21.0	21.5	22.0	22.4	22.7
33	11.8	13.1	14.3	15.4	16.3	17.2	18.0	18.7	19.4	20.0	20.5	21.0	21.5	21.9	22.4	22.7
34	11.7	13.1	14.3	15.4	16.3	17.2	18.0	18.7	19.3	19.9	20.5	21.0	21.5	21.9	22.4	22.7
35	11.7	13.1	14.3	15.3	16.3	17.2	18.0	18.7	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7
36	11.6	13.0	14.2	15.3	16.3	17.1	17.9	18.7	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7
37	11.6	13.0	14.2	15.3	16.3	17.1	17.9	18.7	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7
38	11.6	13.0	14.2	15.3	16.2	17.1	17.9	18.6	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7
39	11.6	12.9	14.2	15.3	16.2	17.1	17.9	18.6	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7
40	11.5	12.9	14.2	15.2	16.2	17.1	17.9	18.6	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7
41	11.5	12.9	14.1	15.2	16.2	17.1	17.9	18.6	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7
42	11.5	12.9	14.1	15.2	16.2	17.1	17.9	18.6	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.48

PLAIN WEAWE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
18	0.0	0.0	0.0	0.0	0.0	32.5	24.7	23.4	23.0	23.0	23.1	23.3	23.5	23.9	24.2	24.4			
19	0.0	0.0	0.0	0.0	29.5	23.2	22.2	22.0	22.1	22.3	22.6	23.0	23.3	23.6	23.9	24.3			
20	0.0	0.0	0.0	28.9	22.0	21.1	21.0	21.2	21.6	21.9	22.3	22.7	23.1	23.4	23.8	24.1			
21	0.0	0.0	33.7	21.0	20.1	20.1	20.4	20.8	21.2	21.7	22.1	22.5	22.9	23.3	23.7	24.0			
22	0.0	0.0	20.1	19.0	19.1	19.5	19.9	20.5	21.0	21.5	21.9	22.4	22.8	23.2	23.6	24.0			
23	0.0	19.8	18.0	19.1	18.5	19.1	19.7	20.2	20.8	21.3	21.8	22.3	22.7	23.2	23.6	23.9			
24	21.7	17.0	17.0	17.5	18.1	18.8	19.4	20.1	20.7	21.2	21.7	22.2	22.7	23.1	23.5	23.9			
25	16.1	15.8	16.4	17.1	17.9	18.6	19.3	19.9	20.6	21.1	21.7	22.2	22.6	23.1	23.5	23.9			
26	14.6	15.2	16.0	16.8	17.7	18.4	19.2	19.8	20.5	21.1	21.6	22.1	22.6	23.0	23.4	23.8			
27	13.9	14.8	15.7	16.6	17.5	18.3	19.1	19.8	20.4	21.0	21.6	22.1	22.5	23.0	23.4	23.8			
28	13.4	14.5	15.5	16.5	17.4	18.2	19.0	19.7	20.4	21.0	21.5	22.0	22.5	23.0	23.4	23.8			
29	13.1	14.3	15.4	16.4	17.3	18.2	18.9	19.7	20.3	20.9	21.5	22.0	22.5	23.0	23.4	23.8			
30	12.8	14.1	15.2	16.3	17.2	18.1	18.9	19.6	20.3	20.9	21.5	22.0	22.5	22.9	23.4	23.8			
31	12.7	14.0	15.2	16.2	17.2	18.1	18.9	19.6	20.3	20.9	21.4	22.0	22.5	22.9	23.4	23.8			
32	12.5	13.9	15.1	16.2	17.1	18.0	18.8	19.6	20.2	20.9	21.4	22.0	22.5	22.9	23.3	23.7			
33	12.4	13.8	15.0	16.1	17.1	18.0	18.8	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
34	12.3	13.7	15.0	16.1	17.1	18.0	18.8	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
35	12.3	13.7	14.9	16.0	17.0	17.9	18.8	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
36	12.2	13.6	14.9	16.0	17.0	17.9	18.7	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
37	12.2	13.6	14.9	16.0	17.0	17.9	18.7	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
38	12.1	13.6	14.8	16.0	17.0	17.9	18.7	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
39	12.1	13.5	14.8	15.9	17.0	17.9	18.7	19.5	20.1	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
40	12.1	13.5	14.8	15.9	16.9	17.9	18.7	19.4	20.1	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
41	12.0	13.5	14.8	15.9	16.9	17.9	18.7	19.4	20.1	20.8	21.4	21.9	22.4	22.9	23.3	23.7			
42	12.0	13.5	14.8	15.9	16.9	17.8	18.7	19.4	20.1	20.8	21.4	21.9	22.4	22.9	23.3	23.7			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY =1.50

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
18	0.0	0.0	0.0	0.0	0.0	38.5	25.4	23.8	23.3	23.2	23.3	23.5	23.8	24.1	24.3	24.6	
19	0.0	0.0	0.0	0.0	33.6	23.9	22.5	22.3	22.3	22.5	22.8	23.1	23.5	23.8	24.1	24.4	
20	0.0	0.0	0.0	34.2	22.6	21.4	21.3	21.5	21.8	22.1	22.5	22.9	23.3	23.6	24.0	24.3	
21	0.0	0.0	0.0	21.6	20.4	20.3	20.6	21.0	21.4	21.9	22.3	22.7	23.1	23.5	23.9	24.2	
22	0.0	0.0	20.3	19.4	19.3	19.7	20.1	20.6	21.1	21.6	22.1	22.6	23.0	23.4	23.8	24.2	
23	0.0	20.8	18.3	18.3	18.7	19.3	19.8	20.4	21.0	21.5	22.0	22.5	22.9	23.3	23.7	24.1	
24	25.6	17.4	17.2	17.7	18.3	19.0	19.6	20.2	20.8	21.4	21.9	22.4	22.8	23.3	23.7	24.1	
25	16.7	16.1	16.6	17.3	18.0	18.8	19.4	20.1	20.7	21.3	21.9	22.3	22.8	23.2	23.6	24.0	
26	14.9	15.4	16.2	17.0	17.8	18.6	19.3	20.0	20.6	21.2	21.8	22.3	22.7	23.2	23.6	24.0	
27	14.1	14.9	15.9	16.4	17.7	18.5	19.2	19.9	20.6	21.2	21.7	22.2	22.7	23.2	23.6	24.0	
28	13.6	14.6	15.7	16.6	17.5	18.4	19.1	19.9	20.5	21.1	21.7	22.2	22.7	23.1	23.6	24.0	
29	13.2	14.4	15.5	16.5	17.4	18.3	19.1	19.8	20.5	21.1	21.6	22.2	22.7	23.1	23.5	23.9	
30	13.0	14.2	15.4	16.4	17.4	18.2	19.0	19.8	20.4	21.0	21.6	22.1	22.6	23.1	23.5	23.9	
31	12.8	14.1	15.3	16.3	17.3	18.2	19.0	19.7	20.4	21.0	21.6	22.1	22.6	23.1	23.5	23.9	
32	12.6	14.0	15.2	16.3	17.3	18.1	19.0	19.7	20.4	21.0	21.6	22.1	22.6	23.1	23.5	23.9	
33	12.5	13.9	15.1	16.2	17.2	18.1	18.9	19.7	20.4	21.0	21.6	22.1	22.6	23.1	23.5	23.9	
34	12.4	13.3	15.1	16.2	17.2	18.1	18.9	19.7	20.3	21.0	21.6	22.1	22.6	23.1	23.5	23.9	
35	12.4	13.8	15.0	16.1	17.2	18.1	18.9	19.6	20.3	21.0	21.5	22.1	22.6	23.0	23.5	23.9	
36	12.3	13.7	15.0	16.1	17.1	18.0	18.9	19.6	20.3	20.9	21.5	22.1	22.6	23.0	23.5	23.9	
37	12.3	13.7	15.0	16.1	17.1	18.0	18.9	19.6	20.3	20.9	21.5	22.1	22.6	23.0	23.5	23.9	
38	12.2	13.7	14.9	16.1	17.1	18.0	18.8	19.6	20.3	20.9	21.5	22.1	22.6	23.0	23.5	23.9	
39	12.2	13.6	14.9	16.1	17.1	18.0	18.8	19.6	20.3	20.9	21.5	22.1	22.6	23.0	23.5	23.9	
40	12.2	13.6	14.9	16.0	17.1	18.0	18.8	19.6	20.3	20.9	21.5	22.0	22.6	23.0	23.5	23.9	
41	12.1	13.6	14.9	16.0	17.0	18.0	18.8	19.6	20.3	20.9	21.5	22.0	22.5	23.0	23.5	23.9	
42	12.1	13.6	14.9	16.0	17.0	18.0	19.8	19.6	20.3	20.9	21.5	22.0	22.5	23.0	23.5	23.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.77

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
20	0.0	0.0	0.0	0.0	0.0	30.0	25.9	25.0	24.8	24.9	25.1	25.4	25.7	26.0	26.3	26.7	
21	0.0	0.0	0.0	0.0	28.9	24.8	23.9	23.8	24.0	24.3	24.7	25.0	25.4	25.8	26.2	26.5	
22	0.0	0.0	0.0	29.2	23.7	22.9	22.9	23.2	23.5	23.9	24.4	24.8	25.2	25.6	26.0	26.4	
23	0.0	0.0	34.6	22.8	21.9	21.9	22.3	22.7	23.2	23.7	24.2	24.6	25.1	25.5	25.9	26.3	
24	0.0	0.0	22.2	20.9	20.9	21.3	21.8	22.4	22.9	23.5	24.0	24.5	25.0	25.4	25.8	26.2	
25	0.0	22.5	19.9	19.9	20.3	20.9	21.5	22.2	22.8	23.3	23.9	24.4	24.9	25.3	25.8	26.2	
26	31.5	19.0	18.8	19.3	19.9	20.6	21.3	22.0	22.6	23.2	23.8	24.3	24.8	25.3	25.7	26.1	
27	19.6	17.6	18.1	18.8	19.6	20.4	21.1	21.8	22.5	23.1	23.7	24.2	24.8	25.2	25.7	26.1	
28	16.5	16.8	17.6	18.5	19.4	20.2	21.0	21.7	22.4	23.1	23.6	24.2	24.7	25.2	25.6	26.1	
29	15.5	16.3	17.3	18.3	19.2	20.1	20.9	21.7	22.4	23.0	23.6	24.2	24.7	25.2	25.6	26.0	
30	14.9	16.0	17.1	18.1	19.1	20.0	20.8	21.6	22.3	22.9	23.6	24.1	24.6	25.1	25.6	26.0	
31	14.5	15.7	16.9	18.0	19.0	19.9	20.8	21.5	22.2	22.9	23.5	24.1	24.6	25.1	25.6	26.0	
32	14.2	15.5	16.8	17.9	18.9	19.8	20.7	21.5	22.2	22.9	23.5	24.1	24.6	25.1	25.6	26.0	
33	14.0	15.4	16.7	17.8	18.8	19.8	20.7	21.4	22.2	22.9	23.5	24.0	24.6	25.1	25.5	26.0	
34	13.8	15.3	16.6	17.7	18.8	19.7	20.6	21.4	22.2	22.8	23.5	24.0	24.6	25.1	25.5	26.0	
35	13.7	15.2	16.5	17.7	18.7	19.7	20.6	21.4	22.1	22.8	23.4	24.0	24.6	25.1	25.5	26.0	
36	13.6	15.1	16.4	17.6	18.7	19.7	20.6	21.4	22.1	22.8	23.4	24.0	24.5	25.0	25.5	26.0	
37	13.5	15.0	16.4	17.6	18.7	19.6	20.5	21.3	22.1	22.8	23.4	24.0	24.5	25.0	25.5	26.0	
38	13.4	15.0	16.3	17.5	18.6	19.6	20.5	21.3	22.1	22.8	23.4	24.0	24.5	25.0	25.5	25.9	
39	13.4	14.9	15.3	17.5	18.6	19.6	20.5	21.3	22.1	22.8	23.4	24.0	24.5	25.0	25.5	25.9	
40	13.3	14.9	16.3	17.5	18.6	19.6	20.5	21.3	22.1	22.7	23.4	24.0	24.5	25.0	25.5	25.9	
41	13.3	14.9	16.2	17.5	18.6	19.6	20.5	21.3	22.0	22.7	23.4	24.0	24.5	25.0	25.5	25.9	
42	13.3	14.8	16.2	17.4	18.6	19.6	20.5	21.3	22.0	22.7	23.4	24.0	24.5	25.0	25.5	25.9	
43	13.2	14.8	16.2	17.4	18.5	19.5	20.4	21.3	22.0	22.7	23.4	24.0	24.5	25.0	25.5	25.9	
44	13.2	14.8	16.2	17.4	18.5	19.5	20.4	21.3	22.0	22.7	23.4	23.9	24.5	25.0	25.5	25.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.00

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	37.6	29.8	23.2	27.6	27.5	27.6	27.8	28.1	29.3	28.6	
21	0.0	0.0	0.0	0.0	0.0	35.0	28.4	27.0	26.6	26.5	26.8	27.1	27.4	27.7	28.1	28.4	
22	0.0	0.0	0.0	0.0	36.6	27.3	25.9	25.7	25.7	26.0	26.3	26.7	27.1	27.5	27.9	28.2	
23	0.0	0.0	0.0	49.5	26.4	24.9	24.7	24.8	25.2	25.6	25.0	26.4	26.9	27.3	27.7	28.1	
24	0.0	0.0	0.0	25.9	23.9	23.7	23.9	24.3	24.8	25.3	25.8	26.2	26.7	27.2	27.6	28.0	
25	0.0	0.0	26.3	23.0	22.7	22.9	23.4	23.9	24.5	25.1	25.6	26.1	26.6	27.1	27.5	27.9	
26	0.0	32.5	22.2	21.6	21.9	22.4	23.1	23.7	24.3	24.9	25.4	26.0	26.5	27.0	27.4	27.9	
27	0.0	21.9	20.6	20.8	21.4	22.1	22.8	23.5	24.1	24.7	25.3	25.9	26.4	26.9	27.4	27.8	
28	23.9	19.6	19.7	20.3	21.1	21.8	22.6	23.3	24.0	24.6	25.2	25.8	26.4	26.9	27.3	27.8	
29	13.9	18.5	19.1	19.9	20.8	21.6	22.4	23.2	23.9	24.6	25.2	25.8	26.3	26.8	27.3	27.7	
30	17.2	17.8	18.7	19.6	20.6	21.5	22.3	23.1	23.8	24.5	25.1	25.7	26.3	26.8	27.3	27.7	
31	16.4	17.3	18.4	19.4	20.4	21.3	22.2	23.0	23.7	24.4	25.1	25.7	26.2	26.7	27.2	27.7	
32	15.8	17.0	18.1	19.3	20.3	21.2	22.1	22.9	23.7	24.4	25.0	25.6	26.2	26.7	27.2	27.7	
33	15.4	16.7	18.0	19.1	20.2	21.2	22.1	22.9	23.8	24.4	25.0	25.6	26.2	26.7	27.2	27.6	
34	15.1	16.5	17.8	19.0	20.1	21.1	22.0	22.8	23.6	24.3	25.0	25.6	26.2	26.7	27.2	27.6	
35	14.9	16.4	17.7	18.9	20.0	21.0	22.0	22.8	23.6	24.3	25.0	25.6	26.1	26.7	27.2	27.6	
36	14.7	16.2	17.6	18.9	20.0	21.0	21.9	22.8	23.6	24.3	24.9	25.5	26.1	26.6	27.1	27.6	
37	14.6	16.1	17.5	18.8	19.9	21.0	21.9	22.7	23.5	24.2	24.9	25.5	26.1	26.6	27.1	27.6	
38	14.5	16.1	17.5	18.7	19.9	20.9	21.9	22.7	23.5	24.2	24.9	25.5	26.1	26.6	27.1	27.6	
39	14.4	16.0	17.4	18.7	19.8	20.9	21.8	22.7	23.5	24.2	24.9	25.5	26.1	26.6	27.1	27.6	
40	14.3	15.9	17.4	18.7	19.8	20.9	21.8	22.7	23.5	24.2	24.9	25.5	26.1	26.6	27.1	27.6	
41	14.3	15.9	17.3	18.6	19.8	20.8	21.8	22.7	23.5	24.2	24.9	25.5	26.1	26.6	27.1	27.6	
42	14.2	15.8	17.3	18.6	19.8	20.8	21.8	22.7	23.4	24.2	24.9	25.5	26.1	26.6	27.1	27.6	
43	14.2	15.8	17.3	18.6	19.7	20.8	21.8	22.6	23.4	24.2	24.9	25.5	26.1	26.6	27.1	27.6	
44	14.1	15.8	17.2	18.6	19.7	20.8	21.8	22.6	23.4	24.2	24.8	25.5	26.1	26.6	27.1	27.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.36

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
24	0.0	0.0	0.0	0.0	37.2	29.3	28.0	27.8	27.9	28.2	28.6	29.0	29.4	29.8	30.2	30.6	
25	0.0	0.0	0.0	51.1	28.7	27.0	26.8	27.0	27.3	27.8	28.2	28.7	29.2	29.6	30.1	30.5	
26	0.0	0.0	0.0	28.5	26.1	25.8	26.0	26.4	26.9	27.5	28.0	28.5	29.0	29.5	30.0	30.4	
27	0.0	0.0	30.0	25.3	24.8	25.0	25.5	26.1	26.7	27.2	27.8	28.4	28.9	29.4	29.9	30.3	
28	0.0	0.0	24.7	23.8	24.0	24.5	25.1	25.8	26.4	27.1	27.7	28.2	28.8	29.3	29.8	30.3	
29	0.0	25.2	22.8	22.9	23.4	24.1	24.8	25.6	26.3	26.9	27.6	28.2	28.7	29.2	29.7	30.2	
30	38.3	22.0	21.7	22.2	23.0	23.8	24.6	25.4	26.1	26.8	27.5	28.1	28.6	29.2	29.7	30.2	
31	22.1	20.5	21.0	21.8	22.7	23.6	24.4	25.2	26.0	26.7	27.4	28.0	28.6	29.1	29.7	30.1	
32	19.5	19.7	20.5	21.5	22.5	23.4	24.3	25.1	25.9	26.6	27.3	28.0	28.5	29.1	29.6	30.1	
33	18.3	19.1	20.1	21.2	22.3	23.3	24.2	25.0	25.8	26.6	27.3	27.9	28.5	29.1	29.6	30.1	
34	17.6	18.7	19.9	21.0	22.1	23.2	24.1	25.0	25.8	26.5	27.2	27.9	28.5	29.0	29.6	30.1	
35	17.0	18.4	19.7	20.9	22.0	23.1	24.0	24.9	25.7	26.5	27.2	27.9	28.4	29.0	29.5	30.0	
36	16.7	18.1	19.5	20.8	21.9	23.0	24.0	24.9	25.7	26.4	27.2	27.8	28.4	29.0	29.5	30.0	
37	16.4	17.9	19.4	20.7	21.8	22.9	23.9	24.8	25.6	26.4	27.1	27.8	28.4	29.0	29.5	30.0	
38	16.2	17.8	19.2	20.6	21.8	22.9	23.9	24.8	25.6	26.4	27.1	27.8	28.4	29.0	29.5	30.0	
39	16.0	17.7	19.1	20.5	21.7	22.8	23.8	24.7	25.6	26.4	27.1	27.8	28.4	29.0	29.5	30.0	
40	15.9	17.6	19.1	20.4	21.7	22.8	23.8	24.7	25.6	26.3	27.1	27.7	28.4	28.9	29.5	30.0	
41	15.8	17.5	19.0	20.4	21.6	22.7	23.8	24.7	25.5	26.3	27.1	27.7	28.3	28.9	29.5	30.0	
42	15.7	17.4	18.9	20.3	21.6	22.7	23.7	24.7	25.5	26.3	27.0	27.7	28.3	28.9	29.5	30.0	
43	15.6	17.3	18.9	20.3	21.5	22.7	23.7	24.6	25.5	26.3	27.0	27.7	28.3	28.9	29.5	30.0	
44	15.5	17.3	18.9	20.3	21.5	22.7	23.7	24.6	25.5	26.3	27.0	27.7	28.3	28.9	29.4	30.0	
45	15.5	17.2	18.8	20.2	21.5	22.6	23.7	24.6	25.5	26.3	27.0	27.7	28.3	28.9	29.4	30.0	
46	15.4	17.2	18.8	20.2	21.5	22.6	23.7	24.6	25.5	26.3	27.0	27.7	28.3	28.9	29.4	29.9	
47	15.4	17.2	18.8	20.2	21.4	22.6	23.6	24.6	25.5	26.3	27.0	27.7	28.3	28.9	29.4	29.9	
48	15.3	17.1	18.7	20.2	21.4	22.6	23.6	24.6	25.4	26.2	27.0	27.7	28.3	28.9	29.4	29.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.50

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
24	0.0	0.0	0.0	0.0	0.0	33.6	30.2	29.4	29.3	29.4	29.7	30.1	30.5	30.9	31.3	31.6
25	0.0	0.0	0.0	0.0	34.0	29.3	28.4	28.3	28.5	28.9	29.3	29.7	30.2	30.6	31.1	31.5
26	0.0	0.0	0.0	37.4	28.6	27.4	27.3	27.6	28.0	28.5	29.0	29.5	30.0	30.5	30.9	31.4
27	0.0	0.0	0.0	28.3	26.5	26.3	26.6	27.1	27.7	28.2	28.8	29.3	29.8	30.3	30.8	31.3
28	0.0	0.0	29.1	25.6	25.3	25.6	26.2	26.8	27.4	28.0	28.6	29.2	29.7	30.2	30.7	31.2
29	0.0	39.8	25.0	24.3	24.5	25.1	25.8	26.5	27.2	27.8	28.5	29.1	29.6	30.2	30.7	31.1
30	0.0	25.2	23.2	23.4	24.0	24.8	25.5	26.3	27.0	27.7	28.3	29.0	29.5	30.1	30.6	31.1
31	32.5	22.4	22.2	22.8	23.6	24.5	25.3	26.1	26.9	27.6	28.3	28.9	29.5	30.0	30.6	31.1
32	22.4	21.0	21.6	22.4	23.3	24.3	25.1	26.0	26.8	27.5	28.2	28.8	29.4	30.0	30.5	31.0
33	20.0	20.2	21.1	22.1	23.1	24.1	25.0	25.9	26.7	27.4	28.1	28.8	29.4	29.9	30.5	31.0
34	18.8	19.6	20.7	21.8	22.9	23.9	24.9	25.8	26.6	27.4	28.1	28.7	29.3	29.9	30.5	31.0
35	18.1	19.2	20.5	21.7	22.8	23.8	24.8	25.7	26.5	27.3	28.0	28.7	29.3	29.9	30.4	30.9
36	17.6	18.9	20.2	21.5	22.7	23.7	24.7	25.6	26.5	27.3	28.0	28.7	29.3	29.9	30.4	30.9
37	17.2	18.7	20.1	21.4	22.6	23.7	24.7	25.6	26.4	27.2	28.0	28.6	29.3	29.8	30.4	30.9
38	16.9	18.5	19.9	21.3	22.5	23.6	24.6	25.5	26.4	27.2	27.9	28.6	29.2	29.8	30.4	30.9
39	16.7	18.3	19.8	21.2	22.4	23.5	24.6	25.5	26.4	27.2	27.9	28.6	29.2	29.8	30.4	30.9
40	16.5	18.2	19.7	21.1	22.3	23.5	24.5	25.5	26.3	27.1	27.9	28.6	29.2	29.8	30.4	30.9
41	16.4	18.1	19.6	21.0	22.3	23.4	24.5	25.4	26.3	27.1	27.9	28.6	29.2	29.8	30.3	30.9
42	16.2	18.0	19.6	21.0	22.3	23.4	24.5	25.4	26.3	27.1	27.9	28.5	29.2	29.8	30.3	30.9
43	16.1	17.9	19.5	20.9	22.2	23.4	24.4	25.4	26.3	27.1	27.8	28.5	29.2	29.8	30.3	30.8
44	15.1	17.9	19.5	20.9	22.2	23.3	24.4	25.4	26.3	27.1	27.8	28.5	29.2	29.8	30.3	30.8
45	16.0	17.8	19.4	20.9	22.1	23.3	24.4	25.4	26.2	27.1	27.8	28.5	29.2	29.8	30.3	30.8
46	15.9	17.8	19.4	20.8	22.1	23.3	24.4	25.3	26.2	27.0	27.8	28.5	29.1	29.7	30.3	30.8
47	15.9	17.7	19.3	20.4	22.1	23.3	24.3	25.3	26.2	27.0	27.8	28.5	29.1	29.7	30.3	30.8
48	15.8	17.7	19.3	20.8	22.1	23.3	24.3	25.3	26.2	27.0	27.8	28.5	29.1	29.7	30.3	30.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY = 2.75

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.7	35.1	32.0	31.8	32.1	32.4	32.7	33.1	33.4
25	0.0	0.0	0.0	0.0	0.0	36.7	32.1	31.1	30.8	31.0	31.2	31.6	32.0	32.4	32.8	33.2
26	0.0	0.0	0.0	0.0	38.4	31.4	30.1	29.9	30.1	30.4	30.8	31.3	31.7	32.2	32.6	33.1
27	0.0	0.0	0.0	53.2	30.9	29.2	28.9	29.1	29.5	30.0	30.5	31.0	31.5	32.0	32.5	32.9
28	0.0	0.0	0.0	31.1	28.3	27.9	28.1	28.5	29.1	29.7	30.2	30.8	31.3	31.9	32.4	32.8
29	0.0	0.0	34.2	27.6	26.9	27.1	27.6	28.2	28.8	29.4	30.1	30.6	31.2	31.8	32.3	32.8
30	0.0	0.0	27.4	25.9	26.0	26.5	27.2	27.9	28.6	29.3	29.9	30.5	31.1	31.7	32.2	32.7
31	0.0	29.2	25.1	24.9	25.4	26.1	26.9	27.6	28.4	29.1	29.8	30.4	31.0	31.6	32.1	32.6
32	0.0	24.6	23.8	24.2	25.0	25.8	26.6	27.5	28.2	29.0	29.7	30.3	30.9	31.5	32.1	32.6
33	26.5	22.7	22.9	23.7	24.6	25.6	26.5	27.3	28.1	28.9	29.6	30.3	30.9	31.5	32.0	32.5
34	22.2	21.6	22.4	23.4	24.4	25.4	26.3	27.2	28.0	28.8	29.5	30.2	30.8	31.4	32.0	32.5
35	20.4	20.9	22.0	23.1	24.2	25.2	26.2	27.1	27.9	28.7	29.5	30.2	30.8	31.4	32.0	32.5
36	19.4	20.4	21.6	22.8	24.0	25.1	26.1	27.0	27.9	28.7	29.4	30.1	30.8	31.4	31.9	32.5
37	18.8	20.1	21.4	22.7	23.9	25.0	26.0	26.9	27.8	28.6	29.4	30.1	30.7	31.3	31.9	32.4
38	18.3	19.8	21.2	22.5	23.7	24.9	25.9	26.9	27.8	28.6	29.3	30.0	30.7	31.3	31.9	32.4
39	18.0	19.5	21.0	22.4	23.6	24.8	25.9	26.8	27.7	28.5	29.3	30.0	30.7	31.3	31.9	32.4
40	17.7	19.4	20.9	22.3	23.6	24.7	25.8	26.8	27.7	28.5	29.3	30.0	30.7	31.3	31.9	32.4
41	17.5	19.2	20.8	22.2	23.5	24.7	25.8	26.7	27.6	28.5	29.3	30.0	30.5	31.3	31.8	32.4
42	17.3	19.1	20.7	22.1	23.4	24.6	25.7	26.7	27.6	28.5	29.2	30.0	30.5	31.3	31.8	32.4
43	17.2	19.0	20.6	22.1	23.4	24.6	25.7	26.7	27.6	28.4	29.2	29.9	30.6	31.2	31.8	32.4
44	17.0	18.9	20.5	22.0	23.3	24.5	25.6	26.7	27.6	28.4	29.2	29.9	30.6	31.2	31.8	32.4
45	16.9	18.8	20.5	22.0	23.3	24.5	25.6	26.6	27.6	28.4	29.2	29.9	30.6	31.2	31.8	32.4
46	16.9	18.7	20.4	21.9	23.3	24.5	25.6	26.6	27.5	28.4	29.2	29.9	30.6	31.2	31.8	32.3
47	16.8	18.7	20.4	21.9	23.2	24.5	25.6	26.6	27.5	28.4	29.2	29.9	30.5	31.2	31.8	32.3
48	16.7	18.6	20.3	21.8	23.2	24.4	25.6	26.6	27.5	28.4	29.2	29.9	30.5	31.2	31.8	32.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =2.95

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	37.0	33.9	33.0	32.8	32.9	33.1	33.5	33.8	34.2	34.6	
26	0.0	0.0	0.0	0.0	0.0	37.0	33.0	32.0	31.8	32.0	32.3	32.7	33.1	33.5	34.0	34.4	
27	0.0	0.0	0.0	0.0	38.7	32.3	31.1	30.9	31.1	31.4	31.9	32.4	32.8	33.3	33.8	34.2	
28	0.0	0.0	0.0	51.4	31.9	30.1	29.9	30.1	30.5	31.0	31.6	32.1	32.6	33.1	33.6	34.1	
29	0.0	0.0	0.0	32.2	29.3	28.9	29.1	29.6	30.2	30.7	31.3	31.9	32.5	33.0	33.5	34.0	
30	0.0	0.0	35.9	28.7	27.9	27.1	28.6	29.2	29.8	30.5	31.1	31.7	32.3	32.9	33.4	33.9	
31	0.0	0.0	28.6	26.9	27.0	27.5	28.2	28.9	29.6	30.3	31.0	31.6	32.2	32.8	33.3	33.9	
32	0.0	31.3	26.1	25.9	26.4	27.1	27.9	28.7	29.4	30.2	30.9	31.5	32.1	32.7	33.3	33.8	
33	0.0	25.9	24.8	25.2	25.9	26.8	27.6	28.5	29.3	30.0	30.8	31.4	32.1	32.7	33.2	33.8	
34	29.1	23.8	23.9	24.6	25.6	26.5	27.4	28.3	29.1	29.9	30.7	31.4	32.0	32.6	33.2	33.7	
35	23.5	22.6	23.3	24.3	25.3	26.3	27.3	28.2	29.0	29.8	30.6	31.3	32.0	32.6	33.1	33.7	
36	21.5	21.8	22.8	24.0	25.1	26.1	27.1	28.1	29.0	29.8	30.5	31.2	31.9	32.5	33.1	33.7	
37	20.4	21.3	22.5	23.7	24.9	26.0	27.0	28.0	28.9	29.7	30.5	31.2	31.9	32.5	33.1	33.6	
38	19.6	20.9	22.2	23.5	24.8	25.9	26.9	27.9	28.8	29.7	30.4	31.2	31.8	32.5	33.1	33.6	
39	19.1	20.6	22.0	23.4	24.6	25.8	26.9	27.9	28.8	29.6	30.4	31.1	31.8	32.4	33.0	33.6	
40	18.7	20.3	21.8	23.2	24.5	25.7	26.8	27.8	28.7	29.6	30.4	31.1	31.8	32.4	33.0	33.6	
41	18.4	20.1	21.7	23.1	24.4	25.6	26.7	27.8	28.7	29.5	30.3	31.1	31.8	32.4	33.0	33.6	
42	18.2	20.0	21.6	23.0	24.4	25.6	26.7	27.7	28.7	29.5	30.3	31.1	31.7	32.4	33.0	33.5	
43	18.0	19.8	21.5	23.0	24.3	25.5	26.7	27.7	28.6	29.5	30.3	31.0	31.7	32.4	33.0	33.5	
44	17.8	19.7	21.4	22.9	24.2	25.5	26.6	27.6	28.6	29.5	30.3	31.0	31.7	32.4	33.0	33.5	
45	17.7	19.6	21.3	22.8	24.2	25.4	26.6	27.6	28.6	29.4	30.3	31.0	31.7	32.4	33.0	33.5	
46	17.6	19.5	21.2	22.8	24.2	25.4	26.6	27.6	28.6	29.4	30.2	31.0	31.7	32.3	32.9	33.5	
47	17.5	19.4	21.2	22.7	24.1	25.4	26.5	27.6	28.5	29.4	30.2	31.0	31.7	32.3	32.9	33.5	
48	17.4	19.4	21.1	22.7	24.1	25.4	26.5	27.6	28.5	29.4	30.2	31.0	31.7	32.3	32.9	33.5	
49	17.4	19.3	21.1	22.6	24.1	25.3	26.5	27.5	28.5	29.4	30.2	31.0	31.7	32.3	32.9	33.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.25

PLAIN WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.3	37.1	36.0	35.6	35.6	35.7	36.0	36.3	36.6
26	0.0	0.0	0.0	0.0	0.0	0.0	40.6	36.2	35.0	34.6	34.7	34.9	35.2	35.6	36.0	36.4
27	0.0	0.0	0.0	0.0	0.0	41.8	35.4	34.0	33.7	33.9	34.1	34.4	34.8	35.3	35.7	36.2
28	0.0	0.0	0.0	0.0	48.1	35.0	33.1	32.7	32.9	33.2	33.6	34.1	34.5	35.0	35.5	36.0
29	0.0	0.0	0.0	0.0	35.1	32.3	31.8	31.9	32.3	32.7	33.2	33.8	34.3	34.8	35.4	35.8
30	0.0	0.0	0.0	37.2	31.7	30.8	30.9	31.3	31.8	32.4	33.0	33.6	34.1	34.7	35.2	35.7
31	0.0	0.0	71.3	31.5	29.5	29.8	30.3	30.8	31.5	32.1	32.8	33.4	34.0	34.6	35.1	35.6
32	0.0	0.0	32.6	29.1	28.2	29.2	29.8	30.5	31.2	31.9	32.6	33.3	33.9	34.5	35.0	35.6
33	0.0	51.1	28.7	27.7	28.0	28.7	29.4	30.2	31.0	31.7	32.5	33.1	33.8	34.4	35.0	35.5
34	0.0	29.7	26.8	26.8	27.5	28.3	29.2	30.0	30.8	31.6	32.3	33.0	33.7	34.3	34.9	35.5
35	0.0	26.2	25.6	26.2	27.1	28.0	28.9	29.8	30.7	31.5	32.2	33.0	33.6	34.3	34.9	35.4
36	27.9	24.5	24.9	25.7	26.7	27.8	28.7	29.7	30.6	31.4	32.2	32.9	33.6	34.2	34.8	35.4
37	24.0	23.5	24.3	25.4	26.5	27.6	28.6	29.6	30.5	31.3	32.1	32.8	33.5	34.2	34.8	35.3
38	22.3	22.8	23.9	25.1	26.3	27.4	28.5	29.5	30.4	31.2	32.0	32.8	33.5	34.1	34.7	35.3
39	21.2	22.3	23.6	24.9	26.1	27.3	28.4	29.4	30.3	31.2	32.0	32.7	33.4	34.1	34.7	35.3
40	20.5	21.9	23.3	24.7	26.0	27.2	28.3	29.3	30.2	31.1	31.9	32.7	33.4	34.1	34.7	35.3
41	20.0	21.6	23.1	24.5	25.8	27.1	28.2	29.2	30.2	31.1	31.9	32.7	33.4	34.1	34.7	35.3
42	19.7	21.3	22.9	24.4	25.7	27.0	28.1	29.2	30.1	31.0	31.9	32.6	33.4	34.0	34.7	35.2
43	19.4	21.1	22.8	24.3	25.7	26.9	28.1	29.1	30.1	31.0	31.8	32.6	33.3	34.0	34.6	35.2
44	19.1	21.0	22.6	24.2	25.6	26.9	28.0	29.1	30.1	31.0	31.8	32.6	33.3	34.0	34.6	35.2
45	18.9	20.8	22.5	24.1	25.5	26.8	28.0	29.1	30.0	31.0	31.8	32.6	33.3	34.0	34.6	35.2
46	18.3	20.7	22.5	24.0	25.5	26.8	27.9	29.0	30.0	30.9	31.8	32.6	33.3	34.0	34.6	35.2
47	18.6	20.6	22.4	24.0	25.4	26.7	27.9	29.0	30.0	30.9	31.9	32.5	33.3	34.0	34.6	35.2
48	18.5	20.5	22.3	23.9	25.4	26.7	27.9	29.0	30.0	30.9	31.7	32.5	33.3	33.9	34.6	35.2
49	18.4	20.4	22.2	23.8	25.3	26.6	27.9	28.9	30.0	30.9	31.7	32.5	33.3	33.9	34.6	35.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.54

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
30	0.0	0.0	0.0	0.0	38.3	34.3	33.5	33.8	34.3	34.8	35.3	35.9	36.4	36.9	37.4		
31	0.0	0.0	0.0	43.2	33.9	32.6	32.5	32.8	33.3	33.9	34.5	35.1	35.7	36.3	36.8	37.3	
32	0.0	0.0	0.0	34.2	31.7	31.5	31.8	32.3	33.0	33.6	34.3	34.9	35.5	36.1	36.7	37.2	
33	0.0	0.0	37.5	31.1	30.4	30.7	31.3	31.9	32.7	33.4	34.1	34.8	35.4	36.0	36.6	37.2	
34	0.0	0.0	31.2	29.5	29.6	30.1	30.9	31.6	32.4	33.2	33.9	34.6	35.3	35.9	36.5	37.1	
35	0.0	34.8	28.7	28.4	28.9	29.7	30.6	31.4	32.2	33.0	33.8	34.5	35.2	35.9	36.5	37.0	
36	0.0	28.8	27.3	27.7	28.5	29.4	30.3	31.2	32.1	32.9	33.7	34.4	35.1	35.8	36.4	37.0	
37	35.7	26.5	26.4	27.1	28.1	29.1	30.1	31.1	32.0	32.8	33.6	34.4	35.1	35.7	36.4	36.9	
38	26.9	25.1	25.7	26.7	27.8	28.9	29.9	30.9	31.8	32.7	33.5	34.3	35.0	35.7	36.3	36.9	
39	24.3	24.2	25.2	26.4	27.6	28.7	29.8	30.8	31.8	32.6	33.5	34.2	35.0	35.6	36.3	36.9	
40	22.8	23.6	24.9	26.1	27.4	28.6	29.7	30.7	31.7	32.6	33.4	34.2	34.9	35.6	36.3	36.9	
41	21.9	23.1	24.5	25.9	27.2	28.4	29.6	30.6	31.6	32.5	33.4	34.2	34.9	35.6	36.2	36.8	
42	21.3	22.8	24.3	25.7	27.1	28.3	29.5	30.6	31.6	32.5	33.3	34.1	34.9	35.6	36.2	36.8	
43	20.8	22.5	24.1	25.6	26.9	28.2	29.4	30.5	31.5	32.4	33.3	34.1	34.8	35.5	36.2	36.8	
44	20.5	22.2	23.9	25.4	26.9	28.2	29.3	30.4	31.5	32.4	33.3	34.1	34.8	35.5	36.2	36.8	
45	20.2	22.0	23.7	25.3	26.8	28.1	29.3	30.4	31.4	32.4	33.2	34.0	34.8	35.5	36.2	36.8	
46	19.9	21.9	23.6	25.2	26.7	28.0	29.2	30.4	31.4	32.3	33.2	34.0	34.6	35.5	36.1	36.8	
47	19.7	21.7	23.5	25.1	26.6	28.0	29.2	30.3	31.4	32.3	33.2	34.0	34.8	35.5	36.1	36.7	
48	19.6	21.6	23.4	25.1	26.6	27.9	29.2	30.3	31.3	32.3	33.2	34.0	34.7	35.5	36.1	36.7	
49	19.4	21.5	23.4	25.0	26.5	27.9	29.1	30.3	31.3	32.3	33.2	34.0	34.7	35.4	36.1	36.7	
50	19.3	21.4	23.3	25.0	26.5	27.8	29.1	30.2	31.3	32.2	33.1	34.0	34.7	35.4	36.1	36.7	
51	19.2	21.3	23.2	24.9	26.4	27.8	29.1	30.2	31.3	32.2	33.1	33.9	34.7	35.4	36.1	36.7	
52	19.1	21.3	23.2	24.9	26.4	27.8	29.0	30.2	31.2	32.2	33.1	33.9	34.7	35.4	36.1	36.7	
53	19.1	21.2	23.1	24.8	26.4	27.8	29.0	30.2	31.2	32.2	33.1	33.9	34.7	35.4	36.1	36.7	
54	19.0	21.2	23.1	24.8	26.3	27.7	29.0	30.2	31.2	32.2	33.1	33.9	34.7	35.4	36.1	36.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.75

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
30	0.0	0.0	0.0	0.0	55.1	37.9	35.7	35.3	35.3	35.7	36.1	36.6	37.1	37.7	38.2	38.7
31	0.0	0.0	0.0	0.0	38.6	35.0	34.3	34.4	34.7	35.2	35.8	36.3	36.9	37.5	38.0	38.5
32	0.0	0.0	0.0	42.8	34.6	33.4	33.4	33.7	34.3	34.9	35.5	36.1	36.7	37.3	37.9	38.4
33	0.0	0.0	0.0	34.9	32.5	32.3	32.7	33.2	33.9	34.6	35.3	35.9	36.6	37.2	37.8	38.3
34	0.0	0.0	38.2	31.9	31.3	31.6	32.2	32.9	33.6	34.3	35.1	35.8	36.4	37.1	37.7	38.2
35	0.0	0.0	32.1	30.3	30.4	31.0	31.8	32.6	33.4	34.2	34.9	35.6	36.3	37.0	37.6	38.2
36	0.0	36.1	29.6	29.2	29.8	30.6	31.5	32.3	33.2	34.0	34.8	35.5	36.2	36.9	37.5	38.1
37	0.0	29.9	28.1	28.5	29.3	30.2	31.2	32.1	33.0	33.9	34.7	35.4	36.2	36.8	37.5	38.1
38	38.8	27.4	27.2	27.9	28.9	30.0	31.0	32.0	32.9	33.8	34.6	35.4	36.1	36.8	37.4	38.0
39	28.2	26.0	26.5	27.5	28.6	29.7	30.8	31.8	32.8	33.7	34.5	35.3	36.0	36.7	37.4	38.0
40	25.3	25.0	26.0	27.2	28.4	29.6	30.7	31.7	32.7	33.6	34.5	35.3	36.0	36.7	37.3	38.0
41	23.7	24.4	25.6	26.9	28.2	29.4	30.6	31.6	32.6	33.5	34.4	35.2	36.0	36.7	37.3	37.9
42	22.7	23.9	25.3	26.7	28.0	29.3	30.5	31.5	32.5	33.5	34.4	35.2	35.9	36.6	37.3	37.9
43	22.0	23.5	25.0	26.5	27.9	29.2	30.4	31.5	32.5	33.4	34.2	35.1	35.9	36.6	37.3	37.9
44	21.5	23.2	24.8	26.3	27.8	29.1	30.3	31.4	32.4	33.4	34.3	35.1	35.9	36.6	37.2	37.9
45	21.2	22.9	24.6	26.2	27.7	29.0	30.2	31.4	32.4	33.4	34.2	35.1	35.8	36.6	37.2	37.9
46	20.8	22.7	24.5	26.1	27.6	28.9	30.2	31.3	32.4	33.3	34.2	35.0	35.8	36.5	37.2	37.8
47	20.6	22.6	24.4	26.0	27.5	28.9	30.1	31.3	32.3	33.3	34.2	35.0	35.8	36.5	37.2	37.8
48	20.4	22.4	24.2	25.9	27.4	28.8	30.1	31.2	32.3	33.3	34.2	35.0	35.9	36.5	37.2	37.8
49	20.2	22.3	24.2	25.8	27.4	28.8	30.0	31.2	32.3	33.2	34.1	35.0	35.8	36.5	37.2	37.8
50	20.1	22.2	24.1	25.8	27.3	28.7	30.0	31.2	32.2	33.2	34.1	35.0	35.8	36.5	37.2	37.8
51	19.9	22.1	24.0	25.7	27.3	28.7	30.0	31.1	32.2	33.2	34.1	35.0	35.7	36.5	37.2	37.8
52	19.8	22.0	23.9	25.7	27.2	28.6	29.9	31.1	32.2	33.2	34.1	34.9	35.7	36.5	37.1	37.8
53	19.7	21.9	23.9	25.6	27.2	28.6	29.9	31.1	32.2	33.2	34.1	34.9	35.7	36.5	37.1	37.8
54	19.7	21.9	23.8	25.6	27.2	28.6	29.9	31.1	32.2	33.2	34.1	34.9	35.7	36.4	37.1	37.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 4.00

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
30	0.0	0.0	0.0	0.0	0.0	45.8	39.2	37.7	37.3	37.4	37.8	38.2	38.6	39.1	39.6	40.1	
31	0.0	0.0	0.0	0.0	56.1	39.1	36.9	36.4	36.5	36.8	37.3	37.8	38.3	38.9	39.4	39.9	
32	0.0	0.0	0.0	0.0	40.0	36.2	35.4	35.5	35.9	36.4	36.9	37.5	38.1	38.7	39.2	39.8	
33	0.0	0.0	0.0	45.0	35.8	34.5	34.5	34.9	35.4	36.0	36.7	37.3	37.9	38.5	39.1	39.7	
34	0.0	0.0	0.0	36.4	33.7	33.4	33.8	34.4	35.0	35.7	36.4	37.1	37.8	38.4	39.0	39.6	
35	0.0	0.0	40.9	33.2	32.4	32.7	33.3	34.0	34.7	35.5	36.2	37.0	37.6	38.3	38.9	39.5	
36	0.0	0.0	33.7	31.5	31.5	32.1	32.9	33.7	34.5	35.3	36.1	36.8	37.5	38.2	38.8	39.4	
37	0.0	39.9	30.9	30.4	30.9	31.7	32.5	33.4	34.3	35.2	36.0	36.7	37.4	38.1	38.8	39.4	
38	0.0	31.6	29.3	29.6	30.4	31.3	32.3	33.2	34.1	35.0	35.8	36.6	37.4	38.1	38.7	39.3	
39	57.8	28.7	28.3	29.0	30.0	31.0	32.1	33.1	34.0	34.9	35.8	36.6	37.3	38.0	38.7	39.3	
40	50.5	27.1	27.5	28.5	29.7	30.8	31.9	32.9	33.9	34.8	35.7	36.5	37.2	38.0	38.6	39.2	
41	26.8	26.1	27.0	28.2	29.4	30.6	31.7	32.8	33.8	34.7	35.6	36.4	37.2	37.9	38.6	39.2	
42	24.7	25.4	26.6	27.9	29.2	30.4	31.6	32.7	33.7	34.7	35.6	36.4	37.2	37.9	38.6	39.2	
43	23.8	24.3	26.2	27.6	29.0	30.3	31.5	32.6	33.6	34.6	35.5	36.3	37.1	37.8	38.5	39.2	
44	23.0	24.4	25.9	27.4	28.9	30.2	31.4	32.5	33.6	34.6	35.5	36.3	37.1	37.8	38.5	39.1	
45	22.5	24.1	25.7	27.3	28.7	30.1	31.3	32.5	33.5	34.5	35.4	36.3	37.1	37.8	38.5	39.1	
46	22.0	23.8	25.5	27.1	28.6	30.0	31.2	32.4	33.5	34.5	35.4	36.2	37.0	37.8	38.5	39.1	
47	21.7	23.6	25.4	27.0	28.5	29.9	31.2	32.4	33.4	34.4	35.4	36.2	37.0	37.7	38.4	39.1	
48	21.4	23.4	25.2	26.9	28.4	29.8	31.1	32.3	33.4	34.4	35.3	36.2	37.0	37.7	38.4	39.1	
49	21.2	23.2	25.1	26.8	28.4	29.8	31.1	32.3	33.4	34.4	35.3	36.2	37.0	37.7	38.4	39.1	
50	21.0	23.1	25.0	26.7	28.3	29.7	31.0	32.2	33.3	34.3	35.3	36.1	36.9	37.7	38.4	39.1	
51	20.8	23.0	24.9	26.7	28.2	29.7	31.0	32.2	33.3	34.3	35.3	36.1	36.9	37.7	38.4	39.0	
52	20.7	22.9	24.8	26.6	28.2	29.6	31.0	32.2	33.3	34.3	35.2	36.1	36.9	37.7	38.4	39.0	
53	20.6	22.8	24.8	26.5	28.2	29.6	30.9	32.1	33.3	34.3	35.2	36.1	36.9	37.7	38.4	39.0	
54	20.5	22.7	24.7	26.5	28.1	29.6	30.9	32.1	33.2	34.3	35.2	36.1	36.9	37.7	38.4	39.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =4.13

PLAIN WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
30	0.0	0.0	0.0	0.0	0.0	56.7	41.6	39.1	38.5	38.4	38.6	39.0	39.4	39.9	40.4	40.8
31	0.0	0.0	0.0	0.0	0.0	42.2	38.5	37.6	37.5	37.7	38.1	38.6	39.1	39.6	40.1	40.7
32	0.0	0.0	0.0	0.0	45.1	38.0	36.7	36.5	36.7	37.2	37.7	38.3	38.8	39.4	40.0	40.5
33	0.0	0.0	0.0	89.5	38.2	35.9	35.5	35.7	36.2	36.8	37.4	38.0	38.6	39.2	39.8	40.4
34	0.0	0.0	0.0	40.3	35.3	34.5	34.7	35.2	35.8	36.5	37.1	37.8	38.5	39.1	39.7	40.3
35	0.0	0.0	65.2	35.3	33.6	33.6	34.1	34.7	35.5	36.2	36.9	37.6	38.3	39.0	39.6	40.2
36	0.0	0.0	37.3	32.9	32.5	32.9	33.6	34.4	35.2	36.0	36.8	37.5	38.2	38.9	39.5	40.1
37	0.0	0.0	32.9	31.5	31.7	32.4	33.2	34.1	35.0	35.8	36.6	37.4	38.1	38.8	39.4	40.0
38	0.0	35.7	30.7	30.5	31.1	32.0	32.9	33.9	34.8	35.7	36.5	37.3	38.0	38.7	39.4	40.0
39	0.0	30.8	29.4	29.8	30.7	31.7	32.7	33.7	34.6	35.5	36.4	37.2	37.9	38.6	39.3	39.9
40	37.8	28.5	28.4	29.3	30.3	31.4	32.5	33.5	34.5	35.4	36.3	37.1	37.9	38.6	39.3	39.9
41	29.3	27.2	27.8	28.9	30.0	31.2	32.3	33.4	34.4	35.3	36.2	37.1	37.8	38.5	39.2	39.9
42	26.5	26.3	27.3	28.5	29.8	31.0	32.2	33.3	34.3	35.3	36.2	37.0	37.8	38.5	39.2	39.8
43	24.9	25.6	26.9	28.2	29.6	30.9	32.1	33.2	34.2	35.2	36.1	36.9	37.7	38.5	39.2	39.8
44	23.9	25.1	26.6	28.0	29.4	30.7	32.0	33.1	34.2	35.1	36.1	36.9	37.7	38.4	39.1	39.8
45	23.2	24.7	26.3	27.8	29.3	30.6	31.9	33.0	34.1	35.1	36.0	36.9	37.7	38.4	39.1	39.8
46	22.7	24.4	26.1	27.7	29.2	30.5	31.8	33.0	34.0	35.0	36.0	36.8	37.6	38.4	39.1	39.7
47	22.3	24.1	25.9	27.5	29.1	30.4	31.7	32.9	34.0	35.0	35.9	36.8	37.6	38.4	39.1	39.7
48	22.0	23.9	25.7	27.4	29.0	30.4	31.7	32.9	34.0	35.0	35.9	36.8	37.6	38.4	39.1	39.7
49	21.7	23.7	25.6	27.3	28.9	30.3	31.6	32.8	33.9	34.9	35.9	36.8	37.6	38.3	39.0	39.7
50	21.5	23.6	25.5	27.2	28.8	30.3	31.6	32.8	33.9	34.9	35.9	36.7	37.6	38.3	39.0	39.7
51	21.3	23.4	25.4	27.1	28.7	30.2	31.5	32.7	33.9	34.9	35.8	36.7	37.5	38.3	39.0	39.7
52	21.1	23.3	25.3	27.1	28.7	30.2	31.5	32.7	33.8	34.9	35.8	36.7	37.5	38.3	39.0	39.7
53	21.0	23.2	25.2	27.0	28.6	30.1	31.5	32.7	33.8	34.8	35.8	36.7	37.5	38.3	39.0	39.7
54	20.9	23.1	25.2	27.0	28.6	30.1	31.4	32.7	33.8	34.8	35.8	36.7	37.5	38.3	39.0	39.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 4.60

PLAIN WFAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
34	0.0	0.0	0.0	0.0	45.2	39.5	38.4	38.3	38.6	39.1	39.7	40.3	40.9	41.5	42.1	42.7
35	0.0	0.0	0.0	61.4	39.7	37.6	37.3	37.6	39.1	38.8	39.4	40.1	40.7	41.4	42.0	42.6
36	0.0	0.0	0.0	41.6	37.0	36.3	36.5	37.1	37.7	38.4	39.2	39.9	40.6	41.2	41.9	42.5
37	0.0	0.0	61.2	37.0	35.4	35.4	35.9	36.6	37.4	38.2	39.0	39.7	40.4	41.1	41.8	42.4
38	0.0	0.0	39.3	34.7	34.3	34.7	35.5	36.3	37.1	38.0	38.8	39.6	40.3	41.0	41.7	42.3
39	0.0	0.0	34.4	33.3	33.5	34.2	35.1	36.0	36.9	37.8	38.6	39.4	40.2	40.9	41.6	42.3
40	0.0	38.6	32.6	32.3	32.9	33.8	34.8	35.8	36.7	37.7	38.5	39.3	40.1	40.9	41.6	42.2
41	0.0	33.0	31.2	31.6	32.5	33.5	34.5	35.6	36.6	37.5	38.4	39.3	40.1	40.8	41.5	42.2
42	46.1	30.5	30.2	31.0	32.1	33.2	34.3	35.4	36.5	37.4	38.3	39.2	40.0	40.7	41.5	42.1
43	32.2	29.0	29.5	30.6	31.8	33.0	34.2	35.3	36.3	37.3	38.3	39.1	39.9	40.7	41.4	42.1
44	28.6	28.0	28.9	30.2	31.5	32.8	34.0	35.2	36.2	37.2	38.2	39.1	39.9	40.7	41.4	42.1
45	26.8	27.2	28.5	29.9	31.3	32.4	33.9	35.1	36.2	37.2	38.1	39.0	39.8	40.6	41.3	42.0
46	25.6	26.7	28.2	29.7	31.1	32.5	33.8	35.0	36.1	37.1	38.1	39.0	39.8	40.6	41.3	42.0
47	24.8	26.2	27.9	29.5	31.0	32.4	33.7	34.9	36.0	37.1	38.0	38.9	39.8	40.6	41.3	42.0
48	24.2	25.9	27.6	29.3	30.8	32.3	33.6	34.8	36.0	37.0	38.0	38.9	39.7	40.5	41.3	42.0
49	23.7	25.6	27.4	29.1	30.7	32.2	33.5	34.8	35.9	37.0	38.0	38.9	39.7	40.5	41.2	41.9
50	23.4	25.4	27.3	29.0	30.6	32.1	33.5	34.7	35.9	36.9	37.9	38.8	39.7	40.5	41.2	41.9
51	23.1	25.2	27.1	28.9	30.5	32.0	33.4	34.7	35.8	36.9	37.9	38.8	39.7	40.5	41.2	41.9
52	22.8	25.0	27.0	28.8	30.5	32.0	33.4	34.6	35.8	36.9	37.9	38.8	39.7	40.5	41.2	41.9
53	22.6	24.8	26.9	28.7	30.4	31.9	33.3	34.6	35.8	36.8	37.8	38.8	39.6	40.4	41.2	41.9
54	22.4	24.7	26.8	28.6	30.3	31.9	33.3	34.6	35.7	36.8	37.8	38.8	39.6	40.4	41.2	41.9
55	22.3	24.6	26.7	28.6	30.3	31.8	33.2	34.5	35.7	36.8	37.8	38.7	39.6	40.4	41.2	41.9
56	22.1	24.5	26.6	28.5	30.2	31.8	33.2	34.5	35.7	36.8	37.8	38.7	39.6	40.4	41.2	41.9
57	22.0	24.4	26.5	28.5	30.2	31.7	33.2	34.5	35.7	36.8	37.8	38.7	39.6	40.4	41.1	41.9
58	21.9	24.3	26.5	28.4	30.1	31.7	33.1	34.4	35.6	36.7	37.8	38.7	39.6	40.4	41.1	41.9

2. HARNESS

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.54

THRUFF-HARNESSE WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	21.1	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	20.0	19.2	18.8	18.6	18.6	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.7	19.7	18.5	18.0	17.9	17.8	17.8	17.9	17.9	
13	0.0	0.0	0.0	0.0	0.0	23.0	18.3	17.4	17.1	17.0	17.1	17.1	17.3	17.4	17.5	17.5	
14	0.0	0.0	0.0	0.0	0.0	17.4	16.4	16.2	16.3	16.4	16.6	16.8	17.0	17.1	17.3	17.3	
15	0.0	0.0	0.0	17.3	15.5	15.2	15.3	15.4	15.7	15.9	16.1	16.4	16.6	16.8	17.0	17.2	
16	0.0	0.0	14.9	14.2	14.5	14.8	14.9	15.1	15.4	15.7	16.0	16.2	16.5	16.7	16.9	17.1	
17	21.4	13.2	13.1	13.3	13.7	14.1	14.5	14.9	15.2	15.5	15.8	16.1	16.4	16.6	16.9	17.1	
18	11.8	11.9	12.4	12.9	13.4	13.9	14.3	14.7	15.1	15.5	15.8	16.1	16.3	16.6	16.8	17.1	
19	10.7	11.4	12.0	12.7	13.2	13.7	14.2	14.6	15.0	15.4	15.7	16.0	16.3	16.6	16.8	17.0	
20	10.3	11.1	11.8	12.5	13.1	13.7	14.1	14.6	15.0	15.4	15.7	16.0	16.3	16.5	16.8	17.0	
21	10.0	10.9	11.7	12.4	13.0	13.6	14.1	14.5	15.0	15.3	15.7	16.0	16.3	16.5	16.8	17.0	
22	9.9	10.8	11.6	12.3	13.0	13.6	14.1	14.5	14.9	15.3	15.6	16.0	16.3	16.5	16.8	17.0	
23	9.7	10.7	11.6	12.3	12.9	13.5	14.0	14.5	14.9	15.3	15.6	16.0	16.2	16.5	16.8	17.0	
24	9.7	10.7	11.5	12.3	12.9	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5	16.8	17.0	
25	9.6	10.6	11.5	12.2	12.9	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5	16.7	17.0	
26	9.6	10.6	11.5	12.2	12.9	13.5	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.5	16.7	17.0	
27	9.6	10.6	11.4	12.2	12.9	13.5	14.0	14.4	14.9	15.3	15.6	15.9	16.2	16.5	16.7	17.0	
28	9.5	10.6	11.4	12.2	12.9	13.4	14.0	14.4	14.9	15.3	15.6	15.9	16.2	16.5	16.7	17.0	
29	9.5	10.5	11.4	12.2	12.8	13.4	14.0	14.4	14.9	15.3	15.6	15.9	16.2	16.5	16.7	17.0	
30	9.5	10.5	11.4	12.2	12.8	13.4	14.0	14.4	14.9	15.2	15.6	15.9	16.2	16.5	16.7	17.0	
31	9.5	10.5	11.4	12.2	12.8	13.4	14.0	14.4	14.9	15.2	15.6	15.9	16.2	16.5	16.7	17.0	
32	9.5	10.5	11.4	12.2	12.8	13.4	14.0	14.4	14.9	15.2	15.6	15.9	16.2	16.5	16.7	17.0	

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MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.56

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	22.7
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4	21.5	20.1	19.5	19.2	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	19.5	18.8	18.5	18.3	18.3	18.3	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	18.3	17.7	17.6	17.5	17.6	17.7	17.8	17.9	
14	0.0	0.0	0.0	0.0	0.0	19.4	17.3	16.8	16.7	16.7	16.8	17.0	17.2	17.3	17.5	17.7	
15	0.0	0.0	0.0	22.3	16.5	15.9	15.8	15.9	16.1	16.3	16.5	16.7	16.9	17.2	17.4	17.5	
16	0.0	0.0	16.6	14.9	14.8	14.9	15.2	15.4	15.7	16.0	16.3	16.6	16.8	17.0	17.3	17.5	
17	0.0	14.4	13.6	13.8	14.1	14.5	14.8	15.2	15.5	15.9	16.2	16.5	16.7	17.0	17.2	17.4	
18	12.7	12.4	12.8	13.3	13.7	14.2	14.6	15.0	15.4	15.8	16.1	16.4	16.7	16.9	17.2	17.4	
19	11.2	11.7	12.4	13.0	13.5	14.0	14.5	14.9	15.3	15.7	16.0	16.3	16.6	16.9	17.1	17.4	
20	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.3	16.6	16.9	17.1	17.3	
21	10.3	11.2	12.0	12.7	13.3	13.9	14.4	14.8	15.2	15.6	16.0	16.3	16.6	16.8	17.1	17.3	
22	10.1	11.0	11.9	12.6	13.2	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.8	17.1	17.3	
23	10.0	10.9	11.8	12.5	13.2	13.8	14.3	14.8	15.2	15.6	15.9	16.2	16.5	16.8	17.1	17.3	
24	9.9	10.9	11.7	12.5	13.2	13.8	14.3	14.8	15.2	15.6	15.9	16.2	16.5	16.8	17.1	17.3	
25	9.3	10.8	11.7	12.5	13.1	13.7	14.3	14.7	15.2	15.6	15.9	16.2	16.5	16.8	17.1	17.3	
26	9.8	10.8	11.7	12.4	13.1	13.7	14.2	14.7	15.2	15.5	15.9	16.2	16.5	16.8	17.1	17.3	
27	9.7	10.8	11.7	12.4	13.1	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.1	17.3	
28	9.7	10.8	11.6	12.4	13.1	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.3	
29	9.7	10.7	11.6	12.4	13.1	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.3	
30	9.7	10.7	11.6	12.4	13.1	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.3	
31	9.7	10.7	11.6	12.4	13.1	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.3	
32	9.7	10.7	11.6	12.4	13.1	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.65

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	23.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.3	22.3	21.2	20.8	20.5
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	20.8	20.1	19.8	19.7	19.7	19.7
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6	19.7	19.1	18.9	18.9	18.9	19.0	19.2	19.3
15	0.0	0.0	0.0	0.0	0.0	21.7	18.9	18.2	18.1	18.1	18.2	18.3	18.5	18.7	18.9	19.1
16	0.0	0.0	0.0	0.0	18.4	17.3	17.1	17.2	17.4	17.6	17.8	18.0	18.3	18.5	19.7	18.9
17	0.0	0.0	20.8	16.6	16.2	16.2	16.4	16.7	17.0	17.3	17.6	17.9	18.1	18.4	18.6	18.8
18	0.0	17.4	15.2	15.1	15.3	15.7	16.1	16.4	16.8	17.1	17.5	17.8	18.0	18.3	18.5	18.8
19	15.4	13.9	14.0	14.4	14.9	15.4	15.8	16.3	16.7	17.0	17.4	17.7	18.0	18.2	18.5	18.7
20	12.5	12.9	13.5	14.1	14.7	15.2	15.7	16.1	16.6	16.9	17.3	17.6	17.9	18.2	18.5	18.7
21	11.7	12.4	13.2	13.9	14.5	15.1	15.6	16.1	16.5	16.9	17.2	17.6	17.9	18.2	18.4	18.7
22	11.2	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.2	18.4	18.7
23	11.0	12.0	12.9	13.6	14.3	14.9	15.5	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.4	18.7
24	10.8	11.9	12.8	13.6	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.8	18.1	18.4	18.6
25	10.7	11.8	12.7	13.5	14.2	14.8	15.4	15.9	16.4	16.8	17.2	17.5	17.8	18.1	18.4	18.6
26	10.6	11.7	12.6	13.5	14.2	14.8	15.4	15.9	16.3	16.8	17.1	17.5	17.8	18.1	18.4	18.6
27	10.6	11.7	12.6	13.4	14.2	14.8	15.4	15.9	16.3	16.8	17.1	17.5	17.8	18.1	18.4	18.6
28	10.5	11.6	12.6	13.4	14.1	14.8	15.4	15.9	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.6
29	10.5	11.6	12.6	13.4	14.1	14.8	15.3	15.9	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.6
30	10.5	11.6	12.5	13.4	14.1	14.8	15.3	15.9	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.6
31	10.5	11.6	12.5	13.4	14.1	14.8	15.3	15.8	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.6
32	10.4	11.6	12.5	13.4	14.1	14.7	15.3	15.8	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.6

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY =0.66

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	23.6
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	20.8
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	19.9
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	19.5
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	19.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	19.1
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	19.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	18.9
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	18.9
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	18.9
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	18.8
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	18.8
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	18.8
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	18.8
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	18.8
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	18.8
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	18.8
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	18.8
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	18.8
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	18.8
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9	18.8
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	18.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.67

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	24.3
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	23.7	22.1	21.4	21.1	21.1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.7	21.9	20.8	20.4	20.2	20.1	20.1	20.1
14	0.0	0.0	0.0	0.0	0.0	0.0	24.5	20.7	19.8	19.5	19.3	19.4	19.4	19.4	19.5	19.6	19.6
15	0.0	0.0	0.0	0.0	0.0	23.8	20.0	18.9	18.6	18.5	18.6	18.7	18.9	19.0	19.2	19.4	19.4
16	0.0	0.0	0.0	0.0	20.1	18.1	17.7	17.6	17.8	17.9	18.2	18.4	18.6	18.8	19.0	19.2	19.2
17	0.0	0.0	0.0	17.7	16.8	16.7	16.8	17.1	17.3	17.6	17.9	18.2	18.4	18.7	18.9	19.1	19.1
18	0.0	24.4	16.0	15.6	15.7	16.0	16.4	16.7	17.1	17.4	17.8	18.1	18.3	18.6	18.8	19.1	19.1
19	19.9	14.6	14.5	14.8	15.2	15.7	16.1	16.5	16.9	17.3	17.6	18.0	18.3	18.5	18.8	19.0	19.0
20	13.2	13.3	13.8	14.4	14.9	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.2	18.5	18.8	19.0	19.0
21	12.1	12.7	13.5	14.1	14.8	15.3	15.9	16.3	16.8	17.2	17.5	17.9	18.2	18.5	18.7	19.0	19.0
22	11.5	12.4	13.2	14.0	14.6	15.2	15.8	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.7	19.0	19.0
23	11.2	12.2	13.1	13.9	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.4	18.7	19.0	19.0
24	11.0	12.1	13.0	13.8	14.5	15.1	15.7	16.2	16.6	17.1	17.4	17.8	18.1	18.4	18.7	19.0	19.0
25	10.9	12.0	12.9	13.7	14.4	15.1	15.6	16.2	16.6	17.0	17.4	17.8	18.1	18.4	18.7	19.0	19.0
26	10.8	11.9	12.9	13.7	14.4	15.0	15.6	16.1	16.5	17.0	17.4	17.8	18.1	18.4	18.7	19.0	19.0
27	10.8	11.9	12.8	13.7	14.4	15.0	15.6	16.1	16.6	17.0	17.4	17.8	18.1	18.4	18.7	19.0	19.0
28	10.7	11.8	12.8	13.6	14.4	15.0	15.6	16.1	16.6	17.0	17.4	17.8	18.1	18.4	18.7	19.0	19.0
29	10.7	11.8	12.8	13.6	14.3	15.0	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4	18.7	19.0	19.0
30	10.6	11.8	12.7	13.6	14.3	15.0	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4	18.7	19.0	19.0
31	10.6	11.8	12.7	13.6	14.3	15.0	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4	18.7	19.0	19.0
32	10.6	11.7	12.7	13.6	14.3	15.0	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4	18.7	19.0	19.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.68

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6	25.2	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	22.6	21.4
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	22.6	21.2	20.7	20.4	20.3	20.3			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	21.4	20.2	19.7	19.6	19.6	19.6	19.7	19.8			
15	0.0	0.0	0.0	0.0	0.0	0.0	20.7	19.3	18.9	18.8	18.8	18.9	19.1	19.2	19.4	19.6			
16	0.0	0.0	0.0	0.0	21.5	18.5	18.0	17.9	18.0	18.1	18.3	18.6	18.8	19.0	19.2	19.4			
17	0.0	0.0	0.0	18.4	17.1	16.9	17.0	17.3	17.5	17.8	18.1	18.3	18.6	18.8	19.1	19.3			
18	0.0	0.0	16.5	15.9	15.0	16.2	16.6	16.9	17.3	17.6	17.9	18.2	18.5	18.7	19.0	19.2			
19	0.0	15.0	14.7	15.0	15.4	15.8	16.3	16.7	17.1	17.4	17.8	18.1	18.4	18.7	18.9	19.2			
20	13.6	13.5	14.0	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.0	18.3	18.6	18.9	19.1			
21	12.3	12.9	13.6	14.3	14.9	15.5	16.0	16.5	16.9	17.3	17.7	18.0	18.3	18.6	18.9	19.1			
22	11.7	12.6	13.4	14.1	14.8	15.4	15.9	16.4	16.8	17.2	17.6	18.0	18.3	18.6	18.8	19.1			
23	11.4	12.3	13.2	14.0	14.7	15.3	15.8	16.3	16.8	17.2	17.6	17.9	18.3	18.6	18.8	19.1			
24	11.2	12.2	13.1	13.9	14.6	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.5	18.8	19.1			
25	11.0	12.1	13.0	13.8	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.2	18.5	18.8	19.1			
26	10.9	12.0	13.0	13.8	14.5	15.2	15.7	16.3	16.7	17.2	17.5	17.9	18.2	18.5	18.8	19.1			
27	10.9	12.0	12.9	13.8	14.5	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.1			
28	10.8	11.9	12.9	13.7	14.5	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.1			
29	10.8	11.9	12.9	13.7	14.5	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.1			
30	10.7	11.8	12.8	13.7	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.0			
31	10.7	11.8	12.8	13.7	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.0			
32	10.7	11.8	12.8	13.7	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.0			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.69

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	14.0	13.8	14.2	14.7	15.2	15.8	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.1	19.3	19.3
21	12.5	13.1	13.8	14.4	15.0	15.6	16.1	16.6	17.0	17.4	17.8	18.1	18.5	18.7	19.0	19.3	19.3
22	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.1	18.4	18.7	19.0	19.2	19.2
23	11.5	12.5	13.3	14.1	14.8	15.4	16.0	16.5	16.9	17.3	17.7	18.1	18.4	18.7	19.0	19.2	19.2
24	11.3	12.3	13.2	14.0	14.7	15.4	15.9	16.4	16.9	17.3	17.7	18.1	18.4	18.7	19.0	19.2	19.2
25	11.1	12.2	13.1	13.9	14.7	15.3	15.9	16.4	16.9	17.3	17.7	18.0	18.4	18.7	19.0	19.2	19.2
26	11.0	12.1	13.1	13.9	14.6	15.3	15.9	16.4	16.9	17.3	17.7	18.0	18.4	18.7	19.0	19.2	19.2
27	10.9	12.1	13.0	13.9	14.6	15.3	15.8	16.4	16.8	17.3	17.7	18.0	18.4	18.7	19.0	19.2	19.2
28	10.9	12.0	13.0	13.9	14.6	15.2	15.8	16.4	16.8	17.3	17.7	18.0	18.3	18.7	19.0	19.2	19.2
29	10.8	12.0	13.0	13.8	14.6	15.2	15.8	16.3	16.8	17.3	17.7	18.0	18.3	18.6	18.9	19.2	19.2
30	10.8	12.0	12.9	13.8	14.5	15.2	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.6	18.9	19.2	19.2
31	10.8	11.9	12.9	13.8	14.5	15.2	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.6	18.9	19.2	19.2
32	10.8	11.9	12.9	13.8	14.5	15.2	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.6	18.9	19.2	19.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.70

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	23.8	22.6	22.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	22.1	21.3	21.0	20.8	20.8
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	21.0	20.3	20.1	20.0	20.0	20.1	20.2
15	0.0	0.0	0.0	0.0	0.0	0.0	22.7	20.1	19.4	19.2	19.2	19.3	19.4	19.6	19.7	19.9
16	0.0	0.0	0.0	0.0	28.5	19.6	18.6	18.4	18.4	18.5	18.7	18.9	19.1	19.3	19.5	19.7
17	0.0	0.0	0.0	20.4	17.8	17.4	17.4	17.6	17.9	18.1	18.4	18.6	18.9	19.1	19.4	19.6
18	0.0	0.0	17.9	16.5	16.4	16.6	16.9	17.2	17.6	17.9	18.2	18.5	18.8	19.0	19.3	19.5
19	0.0	16.1	15.3	15.4	15.8	16.2	16.6	17.0	17.4	17.7	18.1	18.4	18.7	19.0	19.2	19.5
20	14.6	14.0	14.4	14.9	15.4	15.9	16.4	16.8	17.2	17.6	18.0	18.3	18.6	18.9	19.2	19.4
21	12.7	13.2	13.9	14.6	15.2	15.7	16.3	16.7	17.2	17.6	17.9	18.3	18.6	18.9	19.2	19.4
22	12.0	12.8	13.6	14.4	15.0	15.6	16.2	16.7	17.1	17.5	17.9	18.2	18.6	18.9	19.1	19.4
23	11.6	12.6	13.4	14.2	14.9	15.5	16.1	16.6	17.1	17.5	17.9	18.2	18.5	18.8	19.1	19.4
24	11.4	12.4	13.3	14.1	14.8	15.5	16.0	16.6	17.0	17.4	17.8	18.2	18.5	18.8	19.1	19.4
25	11.2	12.3	13.2	14.1	14.8	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.8	19.1	19.4
26	11.1	12.2	13.2	14.0	14.7	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.8	19.1	19.3
27	11.0	12.2	13.1	14.0	14.7	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.8	19.1	19.3
28	11.0	12.1	13.1	13.9	14.7	15.4	15.9	16.5	17.0	17.4	17.8	18.1	18.5	18.8	19.1	19.3
29	10.9	12.1	13.1	13.9	14.7	15.3	15.9	16.5	16.9	17.4	17.8	18.1	18.5	18.8	19.1	19.3
30	10.9	12.1	13.2	13.9	14.7	15.3	15.9	16.5	16.9	17.4	17.8	18.1	18.5	18.8	19.1	19.3
31	10.9	12.0	13.2	13.9	14.6	15.3	15.9	16.4	16.9	17.4	17.8	18.1	18.5	18.8	19.1	19.3
32	10.9	12.0	13.2	13.9	14.6	15.3	15.9	16.4	16.9	17.4	17.8	18.1	18.5	18.8	19.1	19.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.71

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	15.3	14.3	14.5	15.0	15.5	16.0	16.5	17.0	17.4	17.8	18.1	18.5	18.8	19.1	19.3	19.6	19.9
21	13.0	13.4	14.1	14.7	15.3	15.9	16.4	16.9	17.3	17.7	18.1	18.4	18.7	19.0	19.3	19.5	19.9
22	12.2	13.0	13.8	14.5	15.1	15.7	16.3	16.8	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.5	19.9
23	11.7	12.7	13.6	14.3	15.0	15.7	16.2	16.7	17.2	17.6	18.0	18.3	18.7	19.0	19.3	19.5	19.9
24	11.5	12.5	13.4	14.2	15.0	15.6	16.2	16.7	17.2	17.6	18.0	18.3	18.7	19.0	19.3	19.5	19.9
25	11.3	12.4	13.3	14.2	14.9	15.5	16.1	16.7	17.1	17.6	17.9	18.3	18.6	18.9	19.2	19.5	19.9
26	11.2	12.3	13.3	14.1	14.9	15.5	16.1	16.6	17.1	17.5	17.9	18.3	18.5	18.9	19.2	19.5	19.9
27	11.1	12.3	13.2	14.1	14.8	15.5	16.1	16.6	17.1	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.9
28	11.1	12.2	13.2	14.0	14.8	15.5	16.1	16.6	17.1	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.9
29	11.0	12.2	13.2	14.0	14.8	15.4	16.0	16.6	17.1	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.9
30	11.0	12.1	13.1	14.0	14.8	15.4	16.0	16.6	17.1	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.9
31	11.0	12.1	13.1	14.0	14.8	15.4	16.0	16.6	17.1	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.9
32	10.9	12.1	13.1	14.0	14.7	15.4	16.0	16.6	17.0	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.72

THREE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	16.2	14.6	14.8	15.2	15.7	16.2	16.7	17.1	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.7
21	13.2	13.6	14.2	14.8	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.9	19.2	19.4	19.7
22	12.3	13.1	13.9	14.6	15.3	15.9	16.4	16.9	17.4	17.8	18.2	18.5	18.8	19.1	19.4	19.7
23	11.9	12.8	13.7	14.5	15.2	15.8	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	19.4	19.6
24	11.6	12.6	13.6	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	19.4	19.6
25	11.4	12.5	13.5	14.3	15.0	15.7	16.2	16.8	17.2	17.7	18.1	18.4	18.8	19.1	19.4	19.6
26	11.3	12.4	13.4	14.2	15.0	15.6	16.2	16.7	17.2	17.7	18.1	18.4	18.8	19.1	19.4	19.6
27	11.2	12.4	13.3	14.2	14.9	15.5	16.2	16.7	17.2	17.7	18.0	18.4	18.8	19.1	19.3	19.6
28	11.2	12.3	13.3	14.2	14.9	15.6	16.2	16.7	17.2	17.6	18.0	18.4	18.7	19.1	19.3	19.6
29	11.1	12.3	13.3	14.1	14.9	15.6	16.2	16.7	17.2	17.6	18.0	18.4	18.7	19.1	19.3	19.6
30	11.1	12.2	13.2	14.1	14.9	15.5	16.2	16.7	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.6
31	11.0	12.2	13.2	14.1	14.9	15.5	16.1	16.7	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.6
32	11.0	12.2	13.2	14.1	14.9	15.5	16.1	16.7	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.6

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.73

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.9
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	24.1	23.1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	24.0	22.5	21.9	21.6	21.4	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	22.6	21.4	20.9	20.7	20.7	20.7	20.8	
15	0.0	0.0	0.0	0.0	0.0	0.0	34.5	21.8	20.5	20.0	19.9	19.9	20.0	20.1	20.2	20.4	
16	0.0	0.0	0.0	0.0	0.0	22.0	19.7	19.2	19.0	19.1	19.2	19.4	19.6	19.8	20.0	20.2	
17	0.0	0.0	0.0	0.0	19.3	18.3	18.1	18.2	18.4	18.6	18.9	19.1	19.4	19.6	19.8	20.1	
18	0.0	0.0	22.4	17.6	17.1	17.2	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	19.7	20.0	
19	0.0	19.2	16.2	16.1	16.3	16.7	17.0	17.4	17.8	18.2	18.5	18.8	19.1	19.4	19.7	19.9	
20	17.5	14.9	15.0	15.4	15.8	16.3	16.8	17.2	17.7	18.0	18.4	18.7	19.0	19.3	19.6	19.9	
21	13.5	13.8	14.4	15.0	15.6	16.1	16.6	17.1	17.6	18.0	18.3	18.7	19.0	19.3	19.6	19.8	
22	12.5	13.3	14.0	14.7	15.4	16.0	16.5	17.0	17.5	17.9	18.3	18.6	19.0	19.3	19.5	19.8	
23	12.0	13.0	13.8	14.6	15.3	15.9	16.5	17.0	17.4	17.9	18.3	18.6	18.9	19.2	19.5	19.9	
24	11.7	12.9	13.7	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	18.9	19.2	19.5	19.8	
25	11.5	12.6	13.6	14.4	15.1	15.8	16.4	16.9	17.4	17.8	18.2	18.6	18.9	19.2	19.5	19.8	
26	11.4	12.5	13.5	14.3	15.1	15.7	16.3	16.9	17.4	17.8	18.2	18.6	18.9	19.2	19.5	19.8	
27	11.3	12.4	13.4	14.3	15.0	15.7	16.3	16.8	17.3	17.8	18.2	18.5	18.9	19.2	19.5	19.8	
28	11.2	12.4	13.4	14.3	15.0	15.7	16.3	16.8	17.3	17.8	18.2	18.5	18.9	19.2	19.5	19.7	
29	11.2	12.4	13.4	14.2	15.0	15.7	16.3	16.8	17.3	17.8	18.2	18.5	18.9	19.2	19.5	19.7	
30	11.2	12.3	13.3	14.2	15.0	15.7	16.3	16.8	17.3	17.7	18.2	18.5	18.9	19.2	19.5	19.7	
31	11.1	12.3	13.3	14.2	15.0	15.6	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	19.5	19.7	
32	11.1	12.3	13.3	14.2	15.0	15.6	16.2	16.8	17.3	17.7	18.1	18.5	18.9	19.2	19.5	19.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.74

THREE-HARNESS WEAVE FABRICS

WARD COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	24.6	23.5	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	24.8	22.9	22.2	21.8	21.7	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	23.3	21.8	21.2	21.0	20.9	20.9	20.9	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	20.9	20.3	20.1	20.1	20.2	20.3	20.4	20.6	
16	0.0	0.0	0.0	0.0	0.0	23.3	20.1	19.4	19.3	19.3	19.4	19.6	19.8	20.0	20.1	20.3	
17	0.0	0.0	0.0	0.0	20.0	18.6	18.4	18.4	18.6	18.8	19.0	19.3	19.5	19.8	20.0	20.2	
18	0.0	0.0	28.7	18.1	17.4	17.4	17.6	17.9	18.2	18.5	18.8	19.1	19.4	19.6	19.9	20.1	
19	0.0	21.8	16.6	16.3	16.5	16.3	17.2	17.6	18.0	18.3	18.6	19.0	19.3	19.5	19.8	20.0	
20	20.0	15.3	15.2	15.5	16.0	16.5	16.9	17.4	17.8	18.2	18.5	18.9	19.2	19.5	19.7	20.0	
21	13.9	14.0	14.5	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.1	19.4	19.7	20.0	
22	12.7	13.4	14.2	14.9	15.5	16.1	16.7	17.2	17.6	18.0	18.4	18.8	19.1	19.4	19.7	19.9	
23	12.2	13.1	13.9	14.7	15.4	16.0	16.6	17.1	17.6	18.0	18.4	18.7	19.1	19.4	19.7	19.9	
24	11.8	12.9	13.8	14.6	15.3	15.9	16.5	17.1	17.5	18.0	18.4	18.7	19.1	19.4	19.6	19.9	
25	11.6	12.7	13.7	14.5	15.2	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	19.6	19.9	
26	11.5	12.6	13.6	14.4	15.2	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	19.6	19.9	
27	11.4	12.5	13.5	14.4	15.2	15.8	16.4	17.0	17.5	17.9	18.3	18.7	19.0	19.3	19.6	19.9	
28	11.3	12.5	13.5	14.4	15.1	15.8	16.4	16.9	17.4	17.9	18.3	18.7	19.0	19.3	19.6	19.9	
29	11.3	12.4	13.5	14.3	15.1	15.8	16.4	16.9	17.4	17.9	18.3	18.7	19.0	19.3	19.6	19.9	
30	11.2	12.4	13.4	14.3	15.1	15.8	16.4	16.9	17.4	17.9	18.3	18.7	19.0	19.3	19.6	19.9	
31	11.2	12.4	13.4	14.3	15.1	15.8	16.4	16.9	17.4	17.9	18.3	18.6	19.0	19.3	19.6	19.9	
32	11.2	12.4	13.4	14.3	15.1	15.7	16.4	16.9	17.4	17.9	18.3	18.6	19.0	19.3	19.6	19.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.75

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	35.7	15.7	15.4	15.7	16.2	16.6	17.1	17.5	17.9	18.3	18.7	19.0	19.3	19.6	19.9	20.1	
21	14.3	14.2	14.7	15.2	15.9	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3	19.6	19.8	20.1	
22	12.9	13.6	14.3	15.0	15.7	16.2	16.8	17.3	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.1	
23	12.3	13.2	14.1	14.8	15.5	16.1	16.7	17.2	17.7	18.1	18.5	18.9	19.2	19.5	19.8	20.1	
24	12.0	13.0	13.9	14.7	15.4	16.1	16.6	17.2	17.6	18.1	18.5	18.8	19.2	19.5	19.8	20.1	
25	11.8	12.8	13.8	14.6	15.4	16.0	16.6	17.1	17.6	18.1	18.5	18.8	19.2	19.5	19.8	20.1	
26	11.6	12.7	13.7	14.5	15.3	16.0	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.5	19.8	20.1	
27	11.5	12.6	13.6	14.5	15.3	15.9	16.5	17.1	17.6	18.0	18.4	18.8	19.1	19.5	19.8	20.1	
28	11.4	12.6	13.6	14.5	15.2	15.9	16.5	17.1	17.6	18.0	18.4	18.8	19.1	19.5	19.7	20.0	
29	11.4	12.5	13.5	14.4	15.2	15.9	16.5	17.1	17.5	18.0	18.4	18.8	19.1	19.4	19.7	20.0	
30	11.3	12.5	13.5	14.4	15.2	15.9	16.5	17.0	17.5	18.0	18.4	18.8	19.1	19.4	19.7	20.0	
31	11.3	12.5	13.5	14.4	15.2	15.9	16.5	17.0	17.5	18.0	18.4	18.8	19.1	19.4	19.7	20.0	
32	11.3	12.5	13.5	14.4	15.2	15.9	16.5	17.0	17.5	18.0	18.4	18.8	19.1	19.4	19.7	20.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.76

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	26.1	24.3
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	24.0	22.9	22.4	22.2	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	22.7	21.8	21.5	21.3	21.3	21.3	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	21.7	20.9	20.6	20.5	20.6	20.6	20.8	20.9	
16	0.0	0.0	0.0	0.0	0.0	29.0	21.2	20.1	19.8	19.7	19.8	19.9	20.1	20.3	20.5	20.7	
17	0.0	0.0	0.0	0.0	21.8	19.4	18.9	18.8	18.9	19.1	19.4	19.6	19.8	20.1	20.3	20.5	
18	0.0	0.0	0.0	19.3	18.0	17.9	18.0	18.2	18.5	18.8	19.1	19.4	19.7	19.9	20.2	20.4	
19	0.0	0.0	17.6	16.8	16.9	17.2	17.5	17.9	18.2	18.6	18.9	19.2	19.5	19.8	20.1	20.3	
20	0.0	16.1	15.7	15.9	16.3	16.8	17.2	17.7	18.1	18.5	18.8	19.1	19.5	19.8	20.0	20.3	
21	14.7	14.4	14.9	15.4	16.0	16.5	17.0	17.5	18.0	18.4	18.7	19.1	19.4	19.7	20.0	20.2	
22	13.1	13.7	14.4	15.1	15.8	16.4	16.9	17.4	17.9	18.3	18.7	19.0	19.4	19.7	20.0	20.2	
23	12.5	13.4	14.2	14.9	15.6	16.3	16.8	17.3	17.8	18.2	18.6	19.0	19.3	19.6	19.9	20.2	
24	12.1	13.1	14.0	14.8	15.5	16.2	16.8	17.3	17.8	18.2	18.6	19.0	19.3	19.6	19.9	20.2	
25	11.9	12.9	13.9	14.7	15.5	16.1	16.7	17.3	17.7	18.2	18.6	19.0	19.3	19.6	19.9	20.2	
26	11.7	12.8	13.6	14.7	15.4	16.1	16.7	17.2	17.7	18.2	18.6	18.9	19.3	19.6	19.9	20.2	
27	11.6	12.7	13.7	14.6	15.4	16.0	16.7	17.2	17.7	18.1	18.6	18.9	19.3	19.6	19.9	20.2	
28	11.5	12.7	13.7	14.6	15.3	16.0	16.6	17.2	17.7	18.1	18.5	18.9	19.3	19.6	19.9	20.2	
29	11.4	12.6	13.6	14.5	15.3	16.0	16.6	17.2	17.7	18.1	18.5	18.9	19.3	19.6	19.9	20.1	
30	11.4	12.6	13.6	14.5	15.3	16.0	16.6	17.2	17.7	18.1	18.5	18.9	19.3	19.6	19.9	20.1	
31	11.4	12.6	13.6	14.5	15.3	16.0	16.6	17.1	17.7	18.1	18.5	18.9	19.2	19.6	19.9	20.1	
32	11.3	12.5	13.6	14.5	15.3	16.0	16.6	17.1	17.6	18.1	18.5	18.9	19.2	19.6	19.9	20.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.77

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	24.8
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	24.6	23.3	22.7	22.4
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	23.2	22.2	21.7	21.6	21.5	21.5
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	22.3	21.2	20.9	20.7	20.8	20.8	20.9	21.1
16	0.0	0.0	0.0	0.0	0.0	0.0	21.8	20.4	20.0	19.9	20.0	20.1	20.3	20.4	20.6	20.8
17	0.0	0.0	0.0	0.0	23.2	19.8	19.1	19.0	19.1	19.3	19.5	19.7	20.0	20.2	20.4	20.6
18	0.0	0.0	0.0	20.1	18.3	18.1	18.2	18.4	18.7	19.0	19.2	19.5	19.8	20.1	20.3	20.5
19	0.0	0.0	18.2	17.1	17.1	17.3	17.7	18.0	18.4	18.7	19.1	19.4	19.7	20.0	20.2	20.5
20	0.0	16.6	15.9	16.1	16.5	16.9	17.4	17.8	18.2	18.6	19.0	19.3	19.6	19.9	20.2	20.4
21	15.2	14.7	15.1	15.6	16.1	16.7	17.2	17.7	18.1	18.5	18.9	19.2	19.5	19.8	20.1	20.4
22	13.4	13.9	14.6	15.3	15.9	16.5	17.0	17.5	18.0	18.4	18.8	19.2	19.5	19.8	20.1	20.4
23	12.6	13.5	14.3	15.1	15.8	16.4	17.0	17.5	17.9	18.4	18.8	19.1	19.5	19.8	20.1	20.3
24	12.2	13.2	14.1	14.9	15.7	16.3	16.9	17.4	17.9	18.3	18.7	19.1	19.4	19.8	20.0	20.3
25	12.0	13.0	14.0	14.8	15.6	16.2	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.3
26	11.8	12.9	13.9	14.8	15.5	16.2	16.8	17.3	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.3
27	11.7	12.8	13.8	14.7	15.5	16.2	16.8	17.3	17.8	18.3	18.7	19.1	19.4	19.7	20.0	20.3
28	11.6	12.8	13.8	14.7	15.4	16.1	16.7	17.3	17.8	18.3	18.7	19.0	19.4	19.7	20.0	20.3
29	11.5	12.7	13.7	14.6	15.4	16.1	16.7	17.3	17.8	18.2	18.7	19.0	19.4	19.7	20.0	20.3
30	11.5	12.7	13.7	14.6	15.4	16.1	16.7	17.3	17.8	18.2	18.6	19.0	19.4	19.7	20.0	20.3
31	11.4	12.7	13.7	14.6	15.4	16.1	16.7	17.3	17.8	18.2	18.6	19.0	19.4	19.7	20.0	20.3
32	11.4	12.6	13.7	14.6	15.4	16.1	16.7	17.3	17.8	18.2	18.6	19.0	19.4	19.7	20.0	20.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.78

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.79

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	26.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	26.0	24.1	23.3	22.9	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	24.4	22.9	22.3	22.0	21.9	21.9	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2	23.5	22.0	21.4	21.2	21.2	21.2	21.3	21.6	
16	0.0	0.0	0.0	0.0	0.0	0.0	23.5	21.2	20.6	20.4	20.4	20.5	20.6	20.8	20.9	21.1	
17	0.0	0.0	0.0	0.0	30.0	20.8	19.7	19.5	19.5	19.7	19.9	20.1	20.3	20.5	20.7	20.9	
18	0.0	0.0	0.0	22.4	19.1	18.6	18.6	18.8	19.0	19.5	19.5	19.8	20.1	20.3	20.6	20.8	
19	0.0	0.0	19.8	17.7	17.5	17.7	18.0	18.3	18.7	19.0	19.4	19.7	20.0	20.2	20.5	20.7	
20	0.0	18.0	16.5	16.5	16.8	17.2	17.7	18.1	18.5	18.9	19.2	19.6	19.9	20.2	20.4	20.7	
21	16.6	15.2	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.8	19.1	19.5	19.8	20.1	20.4	20.7	
22	13.9	14.3	14.9	15.5	16.2	16.8	17.3	17.8	18.3	18.7	19.1	19.4	19.8	20.1	20.4	20.6	
23	13.0	13.8	14.6	15.3	16.0	16.6	17.2	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.3	20.6	
24	12.5	13.5	14.4	15.2	15.9	16.5	17.1	17.7	18.1	18.6	19.0	19.4	19.7	20.0	20.3	20.6	
25	12.2	13.3	14.2	15.1	15.8	16.5	17.1	17.6	18.1	18.5	19.0	19.3	19.7	20.0	20.3	20.6	
26	12.0	13.1	14.1	15.0	15.7	16.4	17.0	17.6	18.1	18.5	18.9	19.3	19.7	20.0	20.3	20.6	
27	11.9	13.0	14.0	14.9	15.7	16.4	17.0	17.5	18.1	18.5	18.9	19.3	19.7	20.0	20.3	20.6	
28	11.8	13.0	14.0	14.9	15.7	16.3	17.0	17.5	18.0	18.5	18.9	19.3	19.6	20.0	20.3	20.5	
29	11.7	12.9	13.9	14.8	15.6	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	20.0	20.3	20.5	
30	11.6	12.9	13.9	14.8	15.6	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	20.0	20.3	20.5	
31	11.6	12.8	13.9	14.8	15.6	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	20.0	20.3	20.5	
32	11.6	12.8	13.9	14.8	15.6	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	20.0	20.3	20.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.80

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	26.7	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	24.6	23.7	23.2	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	25.1	23.3	22.6	22.3	22.1	22.1	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	22.4	21.7	21.4	21.4	21.4	21.5	21.6	
16	0.0	0.0	0.0	0.0	0.0	0.0	24.7	21.6	20.8	20.6	20.6	20.6	20.8	20.9	21.1	21.3	
17	0.0	0.0	0.0	0.0	0.0	21.4	20.1	19.7	19.7	19.8	20.0	20.2	20.4	20.7	20.9	21.1	
18	0.0	0.0	0.0	24.5	19.5	18.9	18.8	18.9	19.2	19.4	19.7	20.0	20.2	20.5	20.7	21.0	
19	0.0	0.0	21.0	18.1	17.8	17.9	18.2	18.5	18.8	19.2	19.5	19.8	20.1	20.4	20.6	20.9	
20	0.0	19.0	16.8	16.7	17.0	17.4	17.8	18.2	18.6	19.0	19.4	19.7	20.0	20.3	20.6	20.8	
21	17.7	15.5	15.6	16.1	16.6	17.1	17.6	18.0	18.5	18.9	19.3	19.6	19.9	20.2	20.5	20.8	
22	14.2	14.4	15.0	15.7	16.3	16.9	17.4	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.8	
23	13.1	13.9	14.7	15.4	16.1	16.7	17.3	17.8	18.3	18.7	19.1	19.5	19.9	20.2	20.5	20.7	
24	12.6	13.6	14.5	15.3	16.0	16.7	17.2	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.4	20.7	
25	12.3	13.4	14.3	15.2	15.9	16.6	17.2	17.7	18.2	18.7	19.1	19.5	19.8	20.1	20.4	20.7	
26	12.1	13.2	14.2	15.1	15.8	16.5	17.1	17.7	18.2	18.6	19.1	19.4	19.8	20.1	20.4	20.7	
27	12.0	13.1	14.1	15.0	15.8	16.5	17.1	17.7	18.2	18.6	19.0	19.4	19.8	20.1	20.4	20.7	
28	11.9	13.0	14.1	15.0	15.8	16.5	17.1	17.6	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.7	
29	11.8	13.0	14.0	14.9	15.7	16.4	17.1	17.6	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.7	
30	11.7	12.9	14.0	14.9	15.7	16.4	17.0	17.6	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.7	
31	11.7	12.9	14.0	14.9	15.7	16.4	17.0	17.6	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.7	
32	11.7	12.9	13.9	14.9	15.7	16.4	17.0	17.6	18.1	18.6	19.0	19.4	19.7	20.1	20.4	20.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.81

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0	27.5
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2	25.1	24.0	23.5
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	23.8	22.9	22.5	22.4	22.3	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.2	22.8	22.0	21.7	21.6	21.6	21.6	21.7	
16	0.0	0.0	0.0	0.0	0.0	0.0	26.3	22.1	21.1	20.8	20.8	20.8	21.0	21.1	21.3	21.4	
17	0.0	0.0	0.0	0.0	0.0	22.1	20.4	20.0	19.9	20.0	20.2	20.4	20.6	20.8	21.0	21.2	
18	0.0	0.0	0.0	29.0	20.0	19.1	19.0	19.1	19.3	19.6	19.8	20.1	20.4	20.6	20.9	21.1	
19	0.0	0.0	22.3	18.5	18.0	18.1	18.3	18.7	19.0	19.3	19.6	19.9	20.2	20.5	20.8	21.0	
20	0.0	20.5	17.1	16.9	17.2	17.5	18.0	18.4	18.8	19.1	19.5	19.8	20.1	20.4	20.7	21.0	
21	19.4	15.8	15.8	16.2	16.7	17.2	17.7	18.2	18.6	19.0	19.4	19.7	20.1	20.4	20.7	20.9	
22	14.5	14.6	15.2	15.8	16.4	17.0	17.6	18.1	18.5	18.9	19.3	19.7	20.0	20.3	20.6	20.9	
23	13.3	14.1	14.8	15.6	16.2	16.9	17.4	18.0	18.4	18.9	19.3	19.6	20.0	20.3	20.6	20.9	
24	12.8	13.7	14.6	15.4	16.1	16.8	17.4	17.9	18.4	18.8	19.2	19.6	20.0	20.3	20.6	20.8	
25	12.4	13.5	14.4	15.3	16.0	16.7	17.3	17.8	18.3	18.8	19.2	19.6	19.9	20.3	20.6	20.8	
26	12.2	13.3	14.3	15.2	16.0	16.6	17.3	17.8	18.3	18.8	19.2	19.6	19.9	20.2	20.5	20.8	
27	12.1	13.2	14.2	15.1	15.9	16.6	17.2	17.8	18.3	18.7	19.2	19.6	19.9	20.2	20.5	20.8	
28	12.0	13.1	14.2	15.1	15.9	16.6	17.2	17.8	18.3	18.7	19.2	19.5	19.9	20.2	20.5	20.8	
29	11.9	13.1	14.1	15.0	15.8	16.5	17.2	17.7	18.3	18.7	19.1	19.5	19.9	20.2	20.5	20.8	
30	11.8	13.0	14.1	15.0	15.8	16.5	17.2	17.7	18.2	18.7	19.1	19.5	19.9	20.2	20.5	20.8	
31	11.8	13.0	14.1	15.0	15.8	16.5	17.1	17.7	18.2	18.7	19.1	19.5	19.9	20.2	20.5	20.8	
32	11.7	13.0	14.0	15.0	15.8	16.5	17.1	17.7	18.2	18.7	19.1	19.5	19.9	20.2	20.5	20.8	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.92

THREE-HARNESS WEAVE FABRICS

WARD COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	25.7	24.4	23.8	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	24.2	23.2	22.8	22.6	22.5	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	23.2	22.3	21.9	21.8	21.8	21.8	21.9	
16	0.0	0.0	0.0	0.0	0.0	0.0	29.0	22.6	21.5	21.1	21.0	21.0	21.1	21.3	21.4	21.6	
17	0.0	0.0	0.0	0.0	0.0	22.9	20.8	20.2	20.1	20.2	20.4	20.5	20.8	21.0	21.2	21.4	
18	0.0	0.0	0.0	0.0	20.6	19.4	19.2	19.3	19.5	19.7	20.0	20.3	20.5	20.8	21.0	21.3	
19	0.0	0.0	26.4	18.9	18.3	18.3	18.5	18.8	19.1	19.5	19.8	20.1	20.4	20.7	20.9	21.2	
20	0.0	23.0	17.5	17.2	17.4	17.7	18.1	18.5	18.9	19.3	19.6	20.0	20.3	20.6	20.8	21.1	
21	22.8	16.2	16.0	16.4	16.9	17.4	17.9	18.3	18.7	19.1	19.5	19.9	20.2	20.5	20.8	21.1	
22	14.8	14.8	15.4	16.0	16.6	17.1	17.7	18.2	18.6	19.1	19.5	19.8	20.1	20.5	20.8	21.0	
23	13.5	14.2	15.0	15.7	16.4	17.0	17.6	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.7	21.0	
24	12.9	13.8	14.7	15.5	16.2	16.9	17.5	18.0	18.5	18.9	19.4	19.7	20.1	20.4	20.7	21.0	
25	12.5	13.6	14.5	15.4	16.1	16.8	17.4	18.0	18.5	18.9	19.3	19.7	20.1	20.4	20.7	21.0	
26	12.3	13.4	14.4	15.3	16.1	16.7	17.4	17.9	18.4	18.9	19.3	19.7	20.0	20.4	20.7	21.0	
27	12.2	13.3	14.3	15.2	16.0	16.7	17.3	17.9	18.4	18.9	19.3	19.7	20.0	20.4	20.7	20.9	
28	12.0	13.2	14.3	15.2	16.0	16.7	17.3	17.9	18.4	18.8	19.3	19.7	20.0	20.3	20.7	20.9	
29	12.0	13.2	14.2	15.1	15.9	16.6	17.3	17.8	18.4	18.8	19.3	19.7	20.0	20.3	20.6	20.9	
30	11.9	13.1	14.2	15.1	15.9	16.6	17.3	17.8	18.4	18.8	19.3	19.6	20.0	20.3	20.6	20.9	
31	11.8	13.1	14.1	15.1	15.9	16.6	17.2	17.8	18.3	18.8	19.2	19.6	20.0	20.3	20.6	20.9	
32	11.8	13.1	14.1	15.1	15.9	16.6	17.2	17.8	18.3	18.8	19.2	19.6	20.0	20.3	20.6	20.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.83

THREE-HARNESS WEAVE FACTICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	26.4	24.8	24.1
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	24.8	23.6	23.1	22.8	22.7
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1	23.8	22.6	22.2	22.0	22.0	22.0	22.1
16	0.0	0.0	0.0	0.0	0.0	0.0	35.9	23.2	21.8	21.3	21.2	21.2	21.3	21.4	21.6	21.7
17	0.0	0.0	0.0	0.0	0.0	24.0	21.2	20.5	20.4	20.4	20.5	20.7	20.9	21.1	21.3	21.5
18	0.0	0.0	0.0	0.0	21.2	19.7	19.5	19.5	19.7	19.9	20.2	20.4	20.7	20.9	21.2	21.4
19	0.0	0.0	0.0	19.4	18.5	18.5	18.7	19.0	19.3	19.6	19.9	20.2	20.5	20.8	21.1	21.3
20	0.0	31.8	17.9	17.4	17.5	17.9	18.3	18.7	19.0	19.4	19.8	20.1	20.4	20.7	21.0	21.2
21	0.0	16.6	16.3	16.6	17.0	17.5	18.0	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.2
22	15.2	15.0	15.5	16.1	16.7	17.3	17.8	18.3	18.8	19.2	19.6	19.9	20.3	20.6	20.9	21.2
23	13.7	14.4	15.1	15.8	16.5	17.1	17.7	18.2	18.7	19.1	19.5	19.9	20.2	20.6	20.9	21.1
24	13.0	14.0	14.8	15.6	16.3	17.0	17.6	18.1	18.6	19.1	19.5	19.9	20.2	20.5	20.8	21.1
25	12.7	13.7	14.7	15.5	16.2	16.9	17.5	18.1	18.6	19.0	19.4	19.8	20.2	20.5	20.8	21.1
26	12.4	13.5	14.5	15.4	16.2	16.9	17.5	18.0	18.5	19.0	19.4	19.8	20.2	20.5	20.8	21.1
27	12.3	13.4	14.4	15.3	16.1	16.8	17.4	18.0	18.5	19.0	19.4	19.8	20.2	20.5	20.8	21.1
28	12.1	13.3	14.4	15.3	16.1	16.8	17.4	18.0	18.5	19.0	19.4	19.8	20.1	20.5	20.8	21.1
29	12.0	13.3	14.3	15.2	16.0	16.7	17.4	18.0	18.5	19.0	19.4	19.8	20.1	20.5	20.8	21.1
30	12.0	13.2	14.3	15.2	16.0	16.7	17.4	17.9	18.5	18.9	19.4	19.8	20.1	20.5	20.8	21.1
31	11.9	13.2	14.2	15.2	16.0	16.7	17.4	17.9	18.5	18.9	19.4	19.8	20.1	20.5	20.8	21.1
32	11.9	13.1	14.2	15.1	16.0	16.7	17.3	17.9	18.4	18.9	19.4	19.8	20.1	20.5	20.8	21.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.84

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.7	27.1	25.2	24.4	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7	25.4	24.0	23.4	23.1	22.9	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.6	24.3	23.0	22.4	22.2	22.2	22.2	22.3	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	22.2	21.6	21.4	21.4	21.5	21.6	21.7	21.9	
17	0.0	0.0	0.0	0.0	0.0	25.4	21.6	20.8	20.6	20.6	20.7	20.9	21.1	21.3	21.5	21.7	
18	0.0	0.0	0.0	0.0	21.9	20.1	19.7	19.7	19.8	20.1	20.3	20.6	20.8	21.1	21.3	21.5	
19	0.0	0.0	0.0	19.3	18.8	18.7	18.9	19.1	19.4	19.7	20.1	20.4	20.7	20.9	21.2	21.4	
20	0.0	0.0	18.4	17.7	17.7	18.0	18.4	18.8	19.2	19.5	19.9	20.2	20.5	20.8	21.1	21.4	
21	0.0	17.0	16.5	16.7	17.2	17.6	18.1	18.6	19.0	19.4	19.8	20.1	20.5	20.8	21.1	21.3	
22	15.7	15.3	15.7	16.3	16.8	17.4	17.9	18.4	18.9	19.3	19.7	20.1	20.4	20.7	21.0	21.3	
23	13.9	14.5	15.2	15.9	16.6	17.2	17.8	18.3	18.8	19.2	19.6	20.0	20.4	20.7	21.0	21.3	
24	13.2	14.1	15.0	15.7	16.5	17.1	17.7	18.2	18.7	19.2	19.6	20.0	20.3	20.7	21.0	21.2	
25	12.8	13.8	14.8	15.6	16.4	17.0	17.6	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.2	
26	12.5	13.6	14.6	15.5	16.3	17.0	17.6	18.1	18.7	19.1	19.5	19.9	20.3	20.6	20.9	21.2	
27	12.3	13.5	14.5	15.4	16.2	16.9	17.5	18.1	18.6	19.1	19.5	19.9	20.3	20.6	20.9	21.2	
28	12.2	13.4	14.5	15.4	16.2	16.9	17.5	18.1	18.6	19.1	19.5	19.9	20.3	20.6	20.9	21.2	
29	12.1	13.4	14.4	15.3	16.1	16.9	17.5	18.1	18.6	19.1	19.5	19.9	20.3	20.6	20.9	21.2	
30	12.1	13.3	14.4	15.3	16.1	16.8	17.5	18.1	18.6	19.1	19.5	19.9	20.2	20.6	20.9	21.2	
31	12.0	13.3	14.3	15.3	16.1	16.8	17.5	18.0	18.6	19.0	19.5	19.9	20.2	20.6	20.9	21.2	
32	12.0	13.2	14.3	15.2	16.1	16.8	17.4	18.0	18.6	19.0	19.5	19.9	20.2	20.6	20.9	21.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.85

THREE-HARNESS WEAVE FABRICS

WARP COV FAC (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVF FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.86

THREE-HARNES WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.87

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	26.8	25.5	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	25.2	24.3	23.8	23.6	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.7	24.2	23.3	22.9	22.8	22.8	22.8	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	23.4	22.5	22.1	22.0	22.0	22.1	22.2	22.4	
17	0.0	0.0	0.0	0.0	0.0	0.0	23.2	21.7	21.3	21.2	21.2	21.4	21.5	21.7	21.9	22.1	
18	0.0	0.0	0.0	0.0	25.8	21.2	20.5	20.3	20.4	20.6	20.8	21.0	21.3	21.5	21.7	22.0	
19	0.0	0.0	0.0	22.3	19.8	19.4	19.4	19.6	19.9	20.2	20.5	20.8	21.1	21.3	21.6	21.8	
20	0.0	0.0	20.3	18.5	18.3	18.5	18.9	19.2	19.6	20.0	20.3	20.6	20.9	21.2	21.5	21.8	
21	0.0	18.8	17.3	17.3	17.7	18.1	18.5	19.0	19.4	19.8	20.2	20.5	20.8	21.2	21.4	21.7	
22	17.7	16.0	16.2	16.7	17.2	17.8	18.3	18.8	19.3	19.7	20.1	20.4	20.8	21.1	21.4	21.7	
23	14.7	15.0	15.7	16.3	17.0	17.6	18.2	18.7	19.2	19.6	20.0	20.4	20.7	21.1	21.4	21.6	
24	13.7	14.5	15.3	16.1	16.8	17.5	18.1	18.6	19.1	19.5	20.0	20.3	20.7	21.0	21.3	21.6	
25	13.2	14.2	15.1	15.9	16.7	17.4	18.0	18.5	19.0	19.5	19.9	20.3	20.7	21.0	21.3	21.6	
26	12.9	14.0	14.9	15.8	16.6	17.3	17.9	18.5	19.0	19.5	19.9	20.3	20.7	21.0	21.3	21.6	
27	12.6	13.8	14.8	15.7	16.5	17.2	17.9	18.5	19.0	19.4	19.9	20.3	20.6	21.0	21.3	21.6	
28	12.5	13.7	14.7	15.7	16.5	17.2	17.8	18.4	18.9	19.4	19.9	20.3	20.6	21.0	21.3	21.6	
29	12.4	13.6	14.7	15.6	16.4	17.2	17.8	18.4	18.9	19.4	19.9	20.3	20.6	21.0	21.3	21.6	
30	12.3	13.6	14.6	15.6	16.4	17.1	17.8	18.4	18.9	19.4	19.9	20.3	20.6	21.0	21.3	21.6	
31	12.2	13.5	14.6	15.5	16.4	17.1	17.8	18.4	18.9	19.4	19.9	20.3	20.6	20.9	21.3	21.6	
32	12.2	13.5	14.6	15.5	16.4	17.1	17.8	18.4	18.9	19.4	19.9	20.3	20.6	20.9	21.3	21.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.88

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	27.4	25.9	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	25.7	24.6	24.1	23.8		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	24.6	23.6	23.2	23.0	23.0	23.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	23.9	22.8	22.4	22.2	22.2	22.3	22.4	22.5	
17	0.0	0.0	0.0	0.0	0.0	0.0	23.9	22.1	21.5	21.4	21.4	21.5	21.7	21.9	22.1	22.3	
18	0.0	0.0	0.0	0.0	28.6	21.7	20.7	20.5	20.6	20.7	20.9	21.2	21.4	21.6	21.9	22.1	
19	0.0	0.0	0.0	23.6	20.2	19.6	19.6	19.8	20.0	20.3	20.6	20.9	21.2	21.5	21.7	22.0	
20	0.0	0.0	21.3	18.8	18.6	18.7	19.0	19.4	19.7	20.1	20.4	20.8	21.1	21.4	21.6	21.9	
21	0.0	19.7	17.6	17.5	17.8	18.2	18.7	19.1	19.5	19.9	20.3	20.7	21.0	21.3	21.6	21.8	
22	18.9	16.3	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	
23	15.0	15.2	15.8	16.5	17.1	17.7	18.3	18.8	19.3	19.7	20.1	20.5	20.9	21.2	21.5	21.8	
24	13.9	14.6	15.4	16.2	16.9	17.6	18.2	18.7	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.7	
25	13.3	14.3	15.2	16.0	16.8	17.5	18.1	18.7	19.2	19.6	20.0	20.4	20.8	21.1	21.4	21.7	
26	13.0	14.1	15.0	15.9	16.7	17.4	18.0	18.6	19.1	19.6	20.0	20.4	20.8	21.1	21.4	21.7	
27	12.7	13.9	14.9	15.8	16.6	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.8	21.1	21.4	21.7	
28	12.6	13.8	14.8	15.8	16.6	17.3	18.0	18.5	19.1	19.5	20.0	20.4	20.7	21.1	21.4	21.7	
29	12.5	13.7	14.8	15.7	16.5	17.3	17.9	18.5	19.0	19.5	20.0	20.4	20.7	21.1	21.4	21.7	
30	12.4	13.6	14.7	15.7	16.5	17.2	17.9	18.5	19.0	19.5	20.0	20.4	20.7	21.1	21.4	21.7	
31	12.3	13.6	14.7	15.6	16.5	17.2	17.9	18.5	19.0	19.5	19.9	20.4	20.7	21.1	21.4	21.7	
32	12.3	13.6	14.7	15.6	16.5	17.2	17.9	18.5	19.0	19.5	19.9	20.3	20.7	21.1	21.4	21.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.89

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.5	28.1	26.3
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	26.3	25.0	24.4	24.1	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	25.1	23.9	23.4	23.2	23.2	23.2	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.2	24.5	23.1	22.6	22.4	22.4	22.5	22.6	22.7	
17	0.0	0.0	0.0	0.0	0.0	0.0	24.8	22.4	21.8	21.6	21.6	21.7	21.9	22.0	22.2	22.4	
18	0.0	0.0	0.0	0.0	37.5	22.2	21.0	20.7	20.8	20.9	21.1	21.3	21.5	21.8	22.0	22.2	
19	0.0	0.0	0.0	25.5	20.6	19.9	19.8	20.0	20.2	20.5	20.8	21.1	21.3	21.6	21.9	22.1	
20	0.0	0.0	22.6	19.2	18.8	18.9	19.2	17.5	19.9	20.2	20.6	20.9	21.2	21.5	21.8	22.0	
21	0.0	21.0	17.9	17.7	18.0	18.4	18.8	19.2	19.7	20.1	20.4	20.8	21.1	21.4	21.7	22.0	
22	20.5	16.6	16.6	17.0	17.5	18.1	18.6	19.1	19.5	19.9	20.3	20.7	21.0	21.4	21.7	21.9	
23	15.3	15.4	16.0	16.6	17.2	17.8	18.4	18.9	19.4	19.8	20.3	20.6	21.0	21.3	21.6	21.9	
24	14.0	14.8	15.6	16.3	17.0	17.7	18.3	18.8	19.3	19.8	20.2	20.6	20.9	21.3	21.6	21.9	
25	13.4	14.4	15.3	16.2	16.9	17.6	18.2	18.8	19.3	19.7	20.2	20.6	20.9	21.3	21.6	21.9	
26	13.1	14.2	15.2	16.0	16.8	17.5	18.1	18.7	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.9	
27	12.8	14.0	15.0	15.9	16.7	17.5	18.1	18.7	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.8	
28	12.7	13.9	14.9	15.9	16.7	17.4	18.1	18.6	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.8	
29	12.6	13.8	14.9	15.8	16.6	17.4	18.0	18.6	19.2	19.6	20.1	20.5	20.9	21.2	21.5	21.8	
30	12.5	13.7	14.8	15.8	16.6	17.3	18.0	18.6	19.1	19.6	20.1	20.5	20.8	21.2	21.5	21.8	
31	12.4	13.7	14.8	15.7	16.6	17.3	18.0	18.6	19.1	19.6	20.1	20.5	20.8	21.2	21.5	21.8	
32	12.4	13.6	14.7	15.7	16.6	17.3	18.0	18.6	19.1	19.6	20.1	20.5	20.8	21.2	21.5	21.8	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.90

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.6	28.9	26.7
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	26.9	25.3	24.6	24.3
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4	25.7	24.3	23.7	23.5	23.4	23.3
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	25.1	23.5	22.9	22.6	22.6	22.6	22.7	22.9
17	0.0	0.0	0.0	0.0	0.0	0.0	25.8	22.8	22.1	21.8	21.8	21.9	22.0	22.2	22.4	22.6
18	0.0	0.0	0.0	0.0	0.0	22.8	21.3	21.0	20.9	21.1	21.2	21.5	21.7	21.9	22.2	22.4
19	0.0	0.0	0.0	29.1	21.0	20.1	20.0	20.1	20.4	20.6	20.9	21.2	21.5	21.7	22.0	22.3
20	0.0	0.0	24.6	19.5	19.0	19.1	19.3	19.7	20.0	20.4	20.7	21.0	21.3	21.6	21.9	22.2
21	0.0	22.9	18.2	17.9	18.2	18.5	19.0	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.1
22	24.0	16.9	16.8	17.2	17.7	18.2	18.7	19.2	19.6	20.1	20.5	20.8	21.2	21.5	21.8	22.1
23	15.6	15.6	16.1	16.7	17.4	18.0	18.5	19.0	19.5	20.0	20.4	20.8	21.1	21.4	21.7	22.0
24	14.2	14.9	15.7	16.5	17.2	17.8	18.4	19.0	19.4	19.9	20.3	20.7	21.1	21.4	21.7	22.0
25	13.6	14.5	15.4	16.3	17.0	17.7	18.3	18.9	19.4	19.9	20.3	20.7	21.0	21.4	21.7	22.0
26	13.2	14.3	15.3	16.1	16.9	17.6	18.3	18.8	19.3	19.8	20.3	20.7	21.0	21.4	21.7	22.0
27	12.9	14.1	15.1	16.0	16.8	17.6	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.7	22.0
28	12.8	14.0	15.0	16.0	16.8	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9
29	12.6	13.9	15.0	15.9	16.7	17.5	18.1	18.7	19.3	19.7	20.2	20.6	21.0	21.3	21.6	21.9
30	12.6	13.8	14.9	15.9	16.7	17.4	18.1	18.7	19.2	19.7	20.2	20.6	21.0	21.3	21.6	21.9
31	12.5	13.8	14.9	15.8	16.7	17.4	18.1	18.7	19.2	19.7	20.2	20.6	21.0	21.3	21.6	21.9
32	12.4	13.7	14.8	15.8	16.7	17.4	18.1	18.7	19.2	19.7	20.2	20.6	21.0	21.3	21.6	21.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.91

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	15.0	15.8	16.3	16.9	17.5	18.1	18.7	19.2	19.6	20.1	20.5	20.9	21.2	21.5	21.9	22.1	
24	14.4	15.1	15.8	16.6	17.3	17.9	18.5	19.1	19.6	20.0	20.4	20.8	21.2	21.5	21.8	22.1	
25	13.7	14.7	15.6	16.4	17.1	17.8	18.4	19.0	19.5	20.0	20.4	20.8	21.2	21.5	21.8	22.1	
26	13.3	14.4	15.4	16.2	17.0	17.7	18.4	18.9	19.5	19.9	20.3	20.7	21.0	21.4	21.7	22.0	
27	13.0	14.2	15.2	16.1	16.9	17.7	18.3	18.9	19.4	19.9	20.3	20.7	21.1	21.5	21.8	22.1	
28	12.9	14.1	15.1	16.1	16.9	17.6	18.3	18.9	19.4	19.9	20.3	20.7	21.1	21.5	21.8	22.1	
29	12.7	14.0	15.1	16.0	16.8	17.6	18.2	18.8	19.4	19.9	20.3	20.7	21.1	21.4	21.8	22.1	
30	12.6	13.9	15.0	16.0	16.8	17.5	18.2	18.8	19.4	19.8	20.3	20.7	21.1	21.4	21.8	22.1	
31	12.6	13.9	15.0	15.9	16.8	17.5	18.2	18.8	19.3	19.8	20.3	20.7	21.1	21.4	21.7	22.0	
32	12.5	13.8	14.9	15.9	16.7	17.5	18.2	18.8	19.3	19.8	20.3	20.7	21.1	21.4	21.7	22.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.92

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.1	27.8
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3	28.3	26.2	25.2	24.8
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	27.1	25.0	24.3	23.9	23.8	23.7
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	23.4	23.1	23.0	23.0	23.1	23.2
17	0.0	0.0	0.0	0.0	0.0	0.0	29.1	23.8	22.6	22.3	22.2	22.2	22.4	22.5	22.7	22.9
18	0.0	0.0	0.0	0.0	0.0	24.3	22.0	21.4	21.3	21.4	21.6	21.6	22.0	22.2	22.4	22.7
19	0.0	0.0	0.0	0.0	22.1	20.7	20.4	20.5	20.7	20.9	21.2	21.5	21.8	22.0	22.3	22.5
20	0.0	0.0	0.0	20.4	19.5	19.5	19.7	20.0	20.3	20.6	21.0	21.3	21.6	21.9	22.2	22.4
21	0.0	0.0	19.0	19.4	18.5	18.8	19.2	19.6	20.1	20.4	20.8	21.2	21.5	21.8	22.1	22.4
22	0.0	17.7	17.2	17.5	18.0	18.5	19.0	19.4	19.9	20.3	20.7	21.1	21.4	21.7	22.0	22.3
23	16.5	16.0	16.4	17.0	17.6	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.4	21.7	22.0	22.3
24	14.7	15.2	16.0	16.7	17.4	18.0	18.6	19.2	19.7	20.1	20.6	21.0	21.3	21.6	22.0	22.2
25	13.9	14.8	15.7	16.5	17.2	17.9	18.5	19.1	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2
26	13.4	14.5	15.5	16.3	17.1	17.8	18.5	19.0	19.6	20.0	20.5	20.9	21.3	21.6	21.9	22.2
27	13.2	14.3	15.3	16.2	17.0	17.8	18.4	19.0	19.5	20.0	20.5	20.9	21.2	21.6	21.9	22.2
28	13.0	14.2	15.2	16.2	17.0	17.7	18.4	19.0	19.5	20.0	20.4	20.8	21.2	21.6	21.9	22.2
29	12.8	14.1	15.2	16.1	16.9	17.7	18.3	18.9	19.5	20.0	20.4	20.8	21.2	21.6	21.9	22.2
30	12.7	14.0	15.1	16.1	16.9	17.6	18.3	18.9	19.5	20.0	20.4	20.8	21.2	21.6	21.9	22.2
31	12.6	13.9	15.0	16.0	16.9	17.6	18.3	18.9	19.4	19.9	20.4	20.8	21.2	21.5	21.9	22.2
32	12.6	13.9	15.0	16.0	16.8	17.6	18.3	18.9	19.4	19.9	20.4	20.8	21.2	21.5	21.9	22.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.93

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7	28.4
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	26.6	25.6	25.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	25.5	24.6	24.2	24.0	23.9	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	24.7	23.7	23.3	23.2	23.2	23.2	23.3	
17	0.0	0.0	0.0	0.0	0.0	0.0	32.5	24.3	22.9	22.5	22.4	22.4	22.5	22.7	22.8	23.0	
18	0.0	0.0	0.0	0.0	0.0	25.4	22.4	21.7	21.5	21.6	21.7	21.9	22.1	22.4	22.6	22.8	
19	0.0	0.0	0.0	0.0	22.7	21.0	20.6	20.7	20.8	21.1	21.3	21.6	21.9	22.2	22.4	22.7	
20	0.0	0.0	0.0	20.9	19.8	19.7	19.8	20.1	20.4	20.8	21.1	21.4	21.7	22.0	22.3	22.6	
21	0.0	0.0	19.5	19.6	18.7	19.0	19.4	19.8	20.2	20.6	20.9	21.3	21.6	21.9	22.2	22.5	
22	0.0	18.2	17.5	17.7	18.1	18.6	19.1	19.6	20.0	20.4	20.8	21.2	21.5	21.9	22.2	22.4	
23	17.0	16.2	16.6	17.2	17.8	18.3	18.9	19.4	19.9	20.3	20.7	21.1	21.5	21.8	22.1	22.4	
24	14.9	15.4	16.1	16.8	17.5	18.2	18.8	19.3	19.8	20.3	20.7	21.1	21.4	21.8	22.1	22.4	
25	14.0	14.9	15.8	16.6	17.4	18.0	18.7	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.1	22.4	
26	13.6	14.6	15.6	16.5	17.2	17.9	18.6	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	
27	13.3	14.4	15.4	16.3	17.2	17.9	18.5	19.1	19.6	20.1	20.6	21.0	21.4	21.7	22.0	22.3	
28	13.1	14.3	15.3	16.3	17.1	17.8	18.5	19.1	19.6	20.1	20.6	21.0	21.3	21.7	22.0	22.3	
29	12.9	14.2	15.2	16.2	17.0	17.8	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.7	22.0	22.3	
30	12.8	14.1	15.2	16.1	17.0	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.7	22.0	22.3	
31	12.7	14.0	15.1	16.1	17.0	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.7	22.0	22.3	
32	12.7	14.0	15.1	16.1	16.9	17.7	18.4	19.0	19.5	20.0	20.5	20.9	21.3	21.7	22.0	22.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.94

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9	29.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	27.1	25.9	25.3
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	25.9	24.9	24.4	24.2	24.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	25.1	24.0	23.6	23.4	23.4	23.4	23.5
17	0.0	0.0	0.0	0.0	0.0	0.0	45.8	24.9	23.3	22.7	22.6	22.6	22.7	22.8	23.0	23.1
18	0.0	0.0	0.0	0.0	0.0	26.7	22.8	22.0	21.8	21.8	21.9	22.1	22.3	22.5	22.7	22.9
19	0.0	0.0	0.0	0.0	23.5	21.3	20.9	20.9	21.0	21.2	21.5	21.8	22.0	22.3	22.5	22.8
20	0.0	0.0	0.0	21.5	20.1	19.9	20.0	20.3	20.6	20.9	21.2	21.6	21.9	22.1	22.4	22.7
21	0.0	0.0	20.0	18.9	18.9	19.2	19.5	19.9	20.3	20.7	21.1	21.4	21.7	22.1	22.3	22.6
22	0.0	18.7	17.7	17.9	18.3	18.7	19.2	19.7	20.1	20.6	20.9	21.3	21.7	22.0	22.3	22.6
23	17.6	16.5	16.8	17.3	17.9	18.5	19.0	19.5	20.0	20.5	20.9	21.2	21.6	21.9	22.2	22.5
24	15.1	15.6	16.2	17.0	17.6	18.3	18.9	19.4	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.5
25	14.2	15.0	15.9	16.7	17.5	18.1	18.3	19.3	19.8	20.3	20.8	21.2	21.5	21.9	22.2	22.5
26	13.7	14.7	15.7	16.6	17.3	18.1	18.7	19.3	19.8	20.3	20.7	21.1	21.5	21.8	22.2	22.5
27	13.4	14.5	15.5	16.4	17.3	18.0	18.6	19.2	19.8	20.2	20.7	21.1	21.5	21.8	22.1	22.4
28	13.2	14.4	15.4	16.4	17.2	17.9	18.6	19.2	19.7	20.2	20.7	21.1	21.5	21.8	22.1	22.4
29	13.0	14.3	15.3	16.3	17.1	17.9	18.6	19.2	19.7	20.2	20.6	21.1	21.4	21.8	22.1	22.4
30	12.9	14.2	15.3	16.2	17.1	17.8	18.5	19.1	19.7	20.2	20.6	21.1	21.4	21.8	22.1	22.4
31	12.8	14.1	15.2	16.2	17.1	17.8	18.5	19.1	19.7	20.2	20.6	21.0	21.4	21.8	22.1	22.4
32	12.7	14.1	15.2	16.2	17.0	17.8	18.5	19.1	19.7	20.2	20.6	21.0	21.4	21.8	22.1	22.4

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.00

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.9
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	28.4	27.1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.9	27.1	26.0	25.5	25.3
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.5	26.2	25.2	24.7	24.5	24.5	24.5
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	25.8	24.4	23.9	23.7	23.7	23.8	23.9	24.0
18	0.0	0.0	0.0	0.0	0.0	0.0	26.4	23.8	23.1	22.9	22.9	23.0	23.2	23.4	23.6	23.8
19	0.0	0.0	0.0	0.0	0.0	23.9	22.4	22.1	22.1	22.2	22.4	22.6	22.9	23.1	23.3	23.6
20	0.0	0.0	0.0	32.3	22.2	21.3	21.1	21.2	21.5	21.8	22.1	22.4	22.6	22.9	23.2	23.5
21	0.0	0.0	28.3	20.8	20.1	20.2	20.4	20.8	21.1	21.5	21.8	22.2	22.5	22.8	23.1	23.4
22	0.0	29.1	19.5	19.0	19.2	19.6	20.0	20.5	20.9	21.3	21.7	22.1	22.4	22.7	23.0	23.3
23	0.0	18.3	17.9	18.2	18.7	19.2	19.8	20.3	20.7	21.2	21.6	22.0	22.3	22.7	23.0	23.3
24	17.1	16.7	17.1	17.7	18.4	19.0	19.6	20.1	20.6	21.1	21.5	21.9	22.3	22.6	22.9	23.2
25	15.3	15.9	16.7	17.4	18.1	18.8	19.4	20.0	20.5	21.0	21.4	21.8	22.2	22.6	22.9	23.2
26	14.5	15.4	16.4	17.2	18.0	18.7	19.3	19.9	20.5	20.9	21.4	21.8	22.2	22.5	22.9	23.2
27	14.0	15.1	16.2	17.1	17.9	18.6	19.3	19.9	20.4	20.9	21.4	21.8	22.2	22.5	22.9	23.2
28	13.7	14.9	16.0	16.9	17.8	18.5	19.2	19.8	20.4	20.9	21.3	21.8	22.1	22.5	22.8	23.1
29	13.5	14.8	15.9	16.9	17.7	18.5	19.2	19.8	20.3	20.8	21.3	21.7	22.1	22.5	22.8	23.1
30	13.4	14.7	15.8	16.8	17.7	18.4	19.1	19.8	20.3	20.8	21.3	21.7	22.1	22.5	22.8	23.1
31	13.3	14.6	15.8	16.7	17.6	18.4	19.1	19.7	20.3	20.8	21.3	21.7	22.1	22.5	22.8	23.1
32	13.2	14.5	15.7	16.7	17.6	18.4	19.1	19.7	20.3	20.8	21.3	21.7	22.1	22.5	22.8	23.1

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =1.36

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	35.4	32.8	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	31.9	30.7	30.2	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	31.4	30.0	29.4	29.1	29.0	29.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5	31.5	29.5	28.7	28.4	28.3	28.3	28.4	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.0	29.3	28.1	27.6	27.5	27.5	27.6	27.8	28.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	30.8	27.8	27.0	26.7	26.7	26.8	27.0	27.2	27.5	27.7	
22	0.0	0.0	0.0	0.0	0.0	28.8	26.5	25.9	25.8	26.0	26.2	26.4	26.7	27.0	27.3	27.5	
23	0.0	0.0	0.0	0.0	27.3	25.3	24.9	25.0	25.2	25.5	25.8	26.1	26.5	26.8	27.1	27.4	
24	0.0	0.0	0.0	26.2	24.2	24.0	24.1	24.4	24.8	25.2	25.6	25.9	26.3	26.6	27.0	27.3	
25	0.0	0.0	25.4	23.1	22.9	23.2	23.6	24.0	24.5	24.9	25.4	25.8	26.2	26.5	26.9	27.2	
26	0.0	25.5	22.0	21.9	22.2	22.7	23.2	23.8	24.3	24.8	25.2	25.7	26.1	26.5	26.8	27.2	
27	32.0	20.9	20.7	21.1	21.7	22.4	23.0	23.6	24.1	24.7	25.1	25.6	26.0	26.4	26.8	27.1	
28	19.9	19.4	20.0	20.7	21.4	22.1	22.8	23.4	24.0	24.6	25.1	25.5	26.0	26.4	26.7	27.1	
29	18.0	18.6	19.5	20.4	21.2	22.0	22.7	23.3	23.9	24.5	25.0	25.5	25.9	26.3	26.7	27.1	
30	17.1	17.1	19.2	20.1	21.0	21.8	22.6	23.3	23.9	24.4	25.0	25.4	25.9	26.3	26.7	27.0	
31	16.6	17.8	18.9	20.0	20.9	21.7	22.5	23.2	23.8	24.4	24.9	25.4	25.9	26.3	26.7	27.0	
32	16.2	17.6	18.8	19.8	20.8	21.7	22.4	23.1	23.8	24.4	24.9	25.4	25.8	26.3	26.6	27.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 1.48

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	34.7	33.1	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4	34.2	32.3	31.5	31.1		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5	31.9	30.8	30.4	30.2	30.1	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1	31.9	30.3	29.7	29.4	29.4	29.4	29.4	29.5	
21	0.0	0.0	0.0	0.0	0.0	0.0	33.7	30.1	29.1	28.7	28.5	28.6	28.8	28.9	29.1		
22	0.0	0.0	0.0	0.0	0.0	0.0	31.4	28.7	28.0	27.8	27.8	28.0	28.2	28.4	28.6	28.9	
23	0.0	0.0	0.0	0.0	0.0	29.7	27.5	27.0	26.9	27.1	27.3	27.5	27.8	28.1	28.4	28.7	
24	0.0	0.0	0.0	0.0	28.5	26.4	26.0	26.1	26.3	26.6	26.9	27.3	27.6	27.9	28.3	28.6	
25	0.0	0.0	0.0	27.5	25.4	25.0	25.2	25.5	25.9	26.3	26.7	27.1	27.4	27.8	28.1	28.5	
26	0.0	0.0	27.1	24.3	24.0	24.2	24.6	25.1	25.6	26.0	26.5	26.9	27.3	27.7	28.1	28.4	
27	0.0	28.2	23.2	22.9	23.2	23.7	24.3	24.8	25.4	25.9	26.4	26.9	27.2	27.6	28.0	28.3	
28	0.0	22.2	21.8	22.1	22.7	23.4	24.0	24.6	25.2	25.7	26.2	26.7	27.2	27.6	27.9	28.3	
29	21.5	20.5	20.9	21.6	22.4	23.1	23.8	24.5	25.1	25.6	26.2	26.6	27.1	27.5	27.9	28.3	
30	19.1	19.6	20.4	21.3	22.2	23.0	23.7	24.4	25.0	25.6	26.1	26.6	27.0	27.5	27.9	28.2	
31	18.1	19.0	20.1	21.1	22.0	22.8	23.6	24.3	24.9	25.5	26.1	26.6	27.0	27.4	27.9	28.2	
32	17.4	18.7	19.8	20.9	21.8	22.7	23.5	24.2	24.9	25.5	26.0	26.5	27.0	27.4	27.9	28.2	
33	17.0	18.4	19.6	20.7	21.7	22.6	23.4	24.2	24.8	25.4	26.0	26.5	27.0	27.4	27.8	28.2	
34	16.7	18.2	19.5	20.6	21.6	22.6	23.4	24.1	24.8	25.4	26.0	26.5	26.9	27.4	27.8	28.2	
35	16.5	18.0	19.4	20.5	21.6	22.5	23.3	24.1	24.8	25.4	25.9	26.4	26.9	27.4	27.8	28.1	
36	16.4	17.9	19.3	20.5	21.5	22.5	23.3	24.0	24.7	25.3	25.9	26.4	26.9	27.4	27.8	28.1	
37	16.2	17.8	19.2	20.4	21.5	22.4	23.3	24.0	24.7	25.3	25.9	26.4	26.9	27.3	27.8	28.1	
38	16.1	17.8	19.1	20.4	21.4	22.4	23.2	24.0	24.7	25.3	25.9	26.4	26.9	27.3	27.7	28.1	
39	16.1	17.7	19.1	20.3	21.4	22.4	23.2	24.0	24.7	25.3	25.9	26.4	26.9	27.3	27.7	28.1	
40	16.0	17.6	19.1	20.3	21.4	22.3	23.2	24.0	24.7	25.3	25.9	26.4	26.9	27.3	27.7	28.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.50

THREE-HARNESS WEAVE F RICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.6
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6	35.6
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.1	35.2	32.9	32.0	31.5
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.9	32.5	31.3	30.7	30.5	30.4
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.8	32.8	30.8	30.1	29.8	29.7	29.7	29.8
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.7	30.8	29.5	29.0	28.9	28.9	29.0	29.2	29.4
22	0.0	0.0	0.0	0.0	0.0	0.0	22.8	29.3	28.4	28.1	28.1	28.2	28.4	28.6	28.9	29.1
23	0.0	0.0	0.0	0.0	0.0	31.0	28.1	27.4	27.2	27.3	27.5	27.8	28.1	28.4	28.6	28.9
24	0.0	0.0	0.0	0.0	29.7	26.9	26.4	26.4	26.5	26.8	27.2	27.5	27.8	28.2	28.5	28.8
25	0.0	0.0	0.0	28.9	25.9	25.4	25.5	25.7	26.1	26.5	26.9	27.3	27.7	28.0	28.4	28.7
26	0.0	0.0	28.9	24.8	24.3	24.5	24.9	25.3	25.8	26.3	26.7	27.1	27.5	27.9	28.3	28.6
27	0.0	32.7	23.8	23.3	23.5	24.0	24.5	25.0	25.6	26.1	26.6	27.0	27.4	27.8	28.2	28.5
28	0.0	22.9	22.1	22.4	23.0	23.6	24.2	24.8	25.4	25.9	26.4	26.9	27.3	27.8	28.1	28.5
29	22.6	20.9	21.2	21.9	22.6	23.3	24.0	24.7	25.3	25.8	26.4	26.8	27.3	27.7	28.1	28.5
30	19.6	19.9	20.6	21.5	22.4	23.1	23.9	24.6	25.2	25.8	26.3	26.8	27.2	27.7	28.1	28.4
31	18.4	19.3	20.3	21.2	22.2	23.0	23.8	24.5	25.1	25.7	26.2	26.7	27.2	27.6	28.0	28.4
32	17.7	18.9	20.0	21.1	22.0	22.9	23.7	24.4	25.0	25.6	26.2	26.7	27.2	27.6	28.0	28.4
33	17.2	18.6	19.8	20.9	21.9	22.8	23.6	24.3	25.0	25.6	26.2	26.7	27.1	27.6	28.0	28.4
34	16.9	18.4	19.6	20.8	21.8	22.7	23.5	24.3	25.0	25.6	26.1	26.7	27.1	27.6	28.0	28.4
35	16.7	18.2	19.5	20.7	21.7	22.7	23.5	24.2	24.9	25.5	26.1	26.6	27.1	27.6	28.0	28.3
36	16.5	18.1	19.4	20.6	21.7	22.6	23.5	24.2	24.9	25.5	26.1	26.6	27.1	27.5	27.9	28.3
37	16.4	18.0	19.4	20.6	21.6	22.6	23.4	24.2	24.9	25.5	26.1	26.6	27.1	27.5	27.9	28.3
38	16.3	17.9	19.3	20.5	21.6	22.5	23.4	24.2	24.9	25.5	26.1	26.6	27.1	27.5	27.9	28.3
39	16.2	17.8	19.2	20.5	21.6	22.5	23.4	24.1	24.8	25.5	26.1	26.6	27.1	27.5	27.9	28.3
40	16.1	17.8	19.2	20.4	21.5	22.5	23.4	24.1	24.8	25.5	26.0	26.6	27.1	27.5	27.9	28.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.77

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.00

THREE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.6 42.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.8	42.4	39.2	37.8
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.3	39.3	37.4	36.5	36.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.9	37.3	36.0	35.4	35.1	35.1
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0	38.4	35.8	34.9	34.5	34.3	34.3	34.4
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5	36.7	34.6	33.9	33.6	33.6	33.7	33.8	34.0
25	0.0	0.0	0.0	0.0	0.0	0.0	44.8	35.3	33.5	32.9	32.8	32.8	33.0	33.2	33.5	33.7
26	0.0	0.0	0.0	0.0	0.0	45.0	34.2	32.5	32.0	31.9	32.1	32.3	32.6	32.9	33.2	33.5
27	0.0	0.0	0.0	0.0	53.0	33.3	31.5	31.1	31.1	31.3	31.6	31.9	32.3	32.6	33.0	33.3
28	0.0	0.0	0.0	0.0	32.6	30.5	30.1	30.2	30.5	30.9	31.3	31.7	32.1	32.5	32.8	33.2
29	0.0	0.0	0.0	32.4	29.6	29.2	29.3	29.7	30.1	30.6	31.0	31.5	31.9	32.3	32.7	33.1
30	0.0	0.0	33.6	28.7	28.1	28.3	28.7	29.3	29.8	30.3	30.8	31.3	31.8	32.2	32.6	33.0
31	0.0	0.0	27.9	27.1	27.3	27.8	28.4	29.0	29.6	30.1	30.7	31.2	31.7	32.1	32.6	33.0
32	0.0	27.7	26.0	26.1	26.7	27.4	28.1	28.7	29.4	30.0	30.6	31.1	31.6	32.1	32.5	32.9
33	30.4	24.9	24.9	25.5	26.3	27.1	27.8	28.6	29.2	29.9	30.5	31.0	31.5	32.0	32.5	32.9
34	24.0	23.5	24.2	25.1	26.0	26.8	27.7	28.4	29.1	29.9	30.4	31.0	31.5	32.0	32.4	32.8
35	22.1	22.7	23.7	24.7	25.7	26.7	27.5	28.3	29.0	29.7	30.3	30.9	31.4	31.9	32.4	32.8
36	21.0	22.1	23.3	24.5	25.6	26.5	27.4	28.2	29.0	29.7	30.3	30.9	31.4	31.9	32.4	32.8
37	20.4	21.8	23.1	24.3	25.4	26.4	27.3	28.2	28.9	29.6	30.2	30.8	31.4	31.9	32.3	32.8
38	19.9	21.5	22.9	24.1	25.3	26.3	27.3	28.1	28.8	29.6	30.2	30.8	31.3	31.9	32.3	32.8
39	19.6	21.2	22.7	24.0	25.2	26.2	27.2	28.1	28.8	29.5	30.2	30.8	31.3	31.8	32.3	32.7
40	19.4	21.1	22.6	23.9	25.1	26.2	27.1	28.0	28.8	29.5	30.2	30.9	31.3	31.8	32.3	32.7
41	19.2	20.9	22.5	23.8	25.1	26.1	27.1	28.0	28.8	29.5	30.1	30.7	31.3	31.8	32.3	32.7
42	19.0	20.8	22.4	23.8	25.0	26.1	27.1	27.9	28.7	29.5	30.1	30.7	31.3	31.8	32.3	32.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.36

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.6
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.4
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.7	44.0	41.6	40.5
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.4	41.8	40.1	39.3	38.9	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5	40.2	38.9	38.3	38.1	38.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	41.6	38.9	37.9	37.4	37.3	37.3	37.4	
26	0.0	0.0	0.0	0.0	0.0	0.0	55.6	40.2	37.8	36.9	36.6	36.5	36.6	36.8	37.0	
27	0.0	0.0	0.0	0.0	0.0	57.9	39.1	36.7	36.0	35.7	35.4	35.9	36.1	36.4	36.7	
28	0.0	0.0	0.0	0.0	0.0	0.0	38.3	35.8	35.0	34.9	35.0	35.2	35.5	35.8	36.1	36.4
29	0.0	0.0	0.0	0.0	0.0	37.8	34.9	34.1	34.0	34.2	34.5	34.8	35.2	35.5	35.9	36.3
30	0.0	0.0	0.0	0.0	38.0	34.0	33.2	33.1	33.4	33.7	34.1	34.5	34.9	35.3	35.7	36.1
31	0.0	0.0	0.0	40.4	33.3	32.3	32.2	32.5	32.9	33.3	33.8	34.3	34.7	35.2	35.6	36.0
32	0.0	0.0	0.0	32.8	31.3	31.2	31.5	32.0	32.5	33.1	33.6	34.1	34.6	35.1	35.5	35.9
33	0.0	0.0	33.1	30.4	30.2	30.5	31.0	31.6	32.3	32.9	33.4	34.0	34.5	35.0	35.4	35.8
34	0.0	37.2	29.5	29.0	29.4	30.0	30.7	31.4	32.0	32.7	33.3	33.9	34.4	34.9	35.4	35.8
35	0.0	29.1	27.9	28.2	28.9	29.6	30.4	31.2	31.9	32.6	33.2	33.8	34.3	34.8	35.3	35.7
36	31.1	26.7	26.9	27.6	28.5	29.4	30.2	31.0	31.8	32.4	33.1	33.7	34.2	34.8	35.3	35.7
37	25.9	25.5	26.2	27.2	28.2	29.1	30.0	30.9	31.6	32.4	33.0	33.6	34.2	34.7	35.2	35.7
38	24.0	24.7	25.7	26.9	28.0	29.0	29.9	30.8	31.6	32.3	33.0	33.6	34.2	34.7	35.2	35.6
39	22.9	24.1	25.4	26.6	27.8	28.8	29.8	30.7	31.5	32.2	32.9	33.5	34.1	34.7	35.2	35.6
40	22.2	23.7	25.1	26.4	27.6	28.7	29.7	30.6	31.4	32.2	32.9	33.5	34.1	34.6	35.1	35.6
41	21.8	23.4	24.9	26.3	27.5	28.6	29.6	30.5	31.4	32.1	32.8	33.5	34.1	34.6	35.1	35.6
42	21.4	23.2	24.7	26.1	27.4	28.5	29.6	30.5	31.3	32.1	32.8	33.4	34.0	34.6	35.1	35.6
43	21.1	23.0	24.6	26.0	27.3	28.5	29.5	30.4	31.3	32.1	32.8	33.4	34.0	34.6	35.1	35.6
44	20.9	22.8	24.5	25.9	27.3	28.4	29.5	30.4	31.3	32.0	32.8	33.4	34.0	34.6	35.1	35.5

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =2.50

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.75

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.95

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 3.25

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.8	55.5
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.8	52.6	49.7	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0	50.6	48.2	47.1	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3	49.0	47.1	46.1	45.7		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.6	47.8	46.0	45.2	44.8	44.7		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.5	46.7	45.0	44.3	44.1	44.0	44.1		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	45.8	44.1	43.5	43.3	43.3	43.4	43.6		
31	0.0	0.0	0.0	0.0	0.0	0.0	51.4	45.0	43.3	42.6	42.5	42.5	42.7	42.9	43.2		
32	0.0	0.0	0.0	0.0	0.0	53.7	44.5	42.5	41.8	41.7	41.9	42.0	42.3	42.5	42.9		
33	0.0	0.0	0.0	0.0	67.0	44.2	41.7	41.0	40.8	41.0	41.2	41.6	42.0	42.3	42.7		
34	0.0	0.0	0.0	0.0	44.5	41.0	40.1	40.0	40.1	40.5	40.9	41.3	41.7	42.1	42.5		
35	0.0	0.0	0.0	0.0	46.7	40.5	39.2	39.1	39.3	39.6	40.1	40.5	41.0	41.5	42.0	42.4	
36	0.0	0.0	0.0	63.4	40.3	38.4	38.1	38.3	38.7	39.2	39.8	40.3	40.8	41.3	41.8	42.3	
37	0.0	0.0	0.0	41.1	37.7	37.1	37.3	37.8	38.3	38.9	39.5	40.1	40.7	41.2	41.7	42.2	
38	0.0	0.0	46.8	37.2	36.1	36.3	36.8	37.4	38.0	38.7	39.3	40.0	40.5	41.1	41.6	42.1	
39	0.0	0.0	37.5	35.2	35.1	35.6	36.3	37.1	37.8	38.5	39.2	39.9	40.4	41.0	41.5	42.1	
40	0.0	41.9	34.4	34.0	34.4	35.2	36.0	36.8	37.6	38.3	39.1	39.7	40.3	40.9	41.5	42.0	
41	0.0	34.5	32.8	33.1	33.9	34.8	35.7	36.6	37.4	38.2	38.9	39.6	40.3	40.9	41.4	41.9	
42	39.9	31.8	31.8	32.5	33.5	34.5	35.5	36.4	37.3	38.1	38.9	39.6	40.2	40.8	41.4	41.9	
43	31.8	30.3	31.0	32.1	33.2	34.3	35.3	36.3	37.2	38.0	38.9	39.5	40.2	40.8	41.3	41.9	
44	29.1	29.4	30.5	31.7	32.9	34.1	35.2	36.2	37.1	37.9	38.7	39.4	40.1	40.7	41.3	41.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.54

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.1	58.4	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5	55.5	52.2	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.0	53.5	50.7	49.4	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.2	52.0	49.6	48.4	47.9		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	50.8	48.5	47.5	47.0	46.9		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9	49.8	47.6	46.6	46.2	46.1	46.1	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5	49.0	46.7	45.8	45.4	45.5	45.6		
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.6	48.4	45.9	45.0	44.6	44.6	44.7	45.0	45.2	
33	0.0	0.0	0.0	0.0	0.0	0.0	84.4	48.2	45.1	44.1	43.8	43.8	44.0	44.3	44.6	44.9	
34	0.0	0.0	0.0	0.0	0.0	0.0	48.7	44.5	43.3	43.0	43.0	43.3	43.6	43.9	44.3	44.7	
35	0.0	0.0	0.0	0.0	0.0	50.8	44.0	42.5	42.1	42.2	42.5	42.8	43.2	43.6	44.1	44.5	
36	0.0	0.0	0.0	0.0	62.6	43.9	41.8	41.3	41.3	41.6	42.0	42.5	42.9	43.4	43.9	44.3	
37	0.0	0.0	0.0	0.0	44.7	41.1	40.4	40.4	40.7	41.2	41.7	42.2	42.7	43.2	43.7	44.2	
38	0.0	0.0	0.0	48.9	40.7	39.5	39.4	39.8	40.3	40.8	41.4	42.0	42.5	43.1	43.6	44.1	
39	0.0	0.0	0.0	41.0	38.6	38.4	38.7	39.3	39.9	40.5	41.2	41.9	42.4	43.0	43.5	44.0	
40	0.0	0.0	43.8	38.0	37.3	37.6	38.2	38.5	39.6	40.3	41.0	41.7	42.3	42.9	43.4	43.9	
41	0.0	0.0	37.9	36.3	36.5	37.1	37.8	38.6	39.4	40.1	40.9	41.5	42.2	42.8	43.3	43.8	
42	0.0	40.6	35.4	35.2	35.8	36.6	37.5	38.4	39.2	40.0	40.7	41.4	42.1	42.7	43.3	43.8	
43	0.0	35.2	34.0	34.4	35.3	36.3	37.2	38.2	39.0	39.9	40.6	41.3	42.0	42.6	43.2	43.8	
44	39.1	32.9	33.0	33.9	34.9	36.0	37.0	38.0	38.9	39.7	40.5	41.3	42.0	42.6	43.2	43.7	
45	32.7	31.5	32.3	33.4	34.6	35.8	36.8	37.9	38.8	39.7	40.5	41.2	41.9	42.5	43.1	43.7	
46	30.2	30.6	31.8	33.1	34.4	35.6	36.7	37.7	38.7	39.6	40.4	41.2	41.9	42.5	43.1	43.7	
47	28.8	29.9	31.4	32.8	34.2	35.4	36.6	37.6	38.6	39.5	40.3	41.1	41.8	42.5	43.1	43.6	
48	27.9	29.4	31.0	32.6	34.0	35.3	36.5	37.6	38.5	39.5	40.3	41.1	41.8	42.4	43.1	43.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.75

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.5	57.7	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1	55.6	52.9	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.2	54.0	51.6	50.5	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.4	52.7	50.5	49.5	49.1	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.3	51.6	49.6	48.7	48.3	48.1	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9	50.7	48.7	47.8	47.5	47.4	47.4	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	50.0	47.9	47.0	46.7	46.6	46.7	46.9	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.6	49.6	47.1	46.2	45.9	45.9	46.0	46.2	46.5	
34	0.0	0.0	0.0	0.0	0.0	0.0	77.8	49.5	46.4	45.4	45.1	45.1	45.3	45.6	45.9	46.2	
35	0.0	0.0	0.0	0.0	0.0	0.0	50.1	45.8	44.6	44.2	44.3	44.5	44.8	45.2	45.6	46.0	
36	0.0	0.0	0.0	0.0	0.0	52.6	45.4	43.8	43.4	43.7	44.1	44.5	44.9	45.4	45.4	45.8	
37	0.0	0.0	0.0	0.0	68.9	45.4	43.1	42.5	42.6	42.9	43.3	43.7	44.2	44.7	45.2	45.6	
38	0.0	0.0	0.0	0.0	46.6	42.5	41.6	41.6	41.9	42.4	42.9	43.5	44.0	44.5	45.0	45.5	
39	0.0	0.0	0.0	52.4	42.2	40.8	40.7	41.0	41.5	42.0	42.6	43.2	43.8	44.4	44.9	45.4	
40	0.0	0.0	0.0	42.8	40.0	39.6	39.9	40.5	41.1	41.8	42.4	43.0	43.7	44.2	44.8	45.3	
41	0.0	0.0	47.1	39.5	38.6	38.8	39.4	40.1	40.8	41.5	42.2	42.9	43.5	44.1	44.7	45.2	
42	0.0	0.0	39.8	37.6	37.7	38.2	39.0	39.8	40.6	41.3	42.1	42.8	43.4	44.0	44.6	45.2	
43	0.0	44.5	36.9	36.5	37.0	37.8	38.6	39.5	40.4	41.2	41.9	42.7	43.3	44.0	44.6	45.1	
44	0.0	37.2	35.3	35.6	36.5	37.4	38.4	39.3	40.2	41.0	41.8	42.6	43.3	43.9	44.5	45.1	
45	45.6	34.4	34.2	35.0	36.0	37.1	38.2	39.1	40.1	40.9	41.7	42.5	43.2	43.8	44.5	45.0	
46	34.9	32.8	33.4	34.5	35.7	36.9	38.0	39.0	40.0	40.8	41.7	42.4	43.1	43.8	44.4	45.0	
47	31.8	31.8	32.9	34.2	35.4	36.7	37.8	38.9	39.9	40.8	41.6	42.4	43.1	43.8	44.4	45.0	
48	30.1	31.0	32.4	33.8	35.2	36.5	37.7	38.8	39.8	40.7	41.5	42.3	43.0	43.7	44.3	44.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =4.00

THREE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 4.13

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 4.60

THREE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.1
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.8	62.5
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.3	61.0	58.2
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.8	59.8	57.2	55.9
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2	58.9	56.3	55.1	54.5
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	59.1	53.4	54.2	53.7	53.5
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.7	57.7	54.7	53.5	52.9	52.7	52.7
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.2	57.5	54.0	52.7	52.1	52.0	52.0	52.2
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.0	53.5	52.0	51.4	51.2	51.3	51.5	51.7
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.7	53.2	51.3	50.6	50.4	50.5	50.7	51.0	51.4
38	0.0	0.0	0.0	0.0	0.0	0.0	65.5	53.2	50.6	49.8	49.6	49.7	50.0	50.3	50.7	51.1
39	0.0	0.0	0.0	0.0	0.0	0.0	53.9	50.1	49.0	48.8	48.9	49.2	49.6	50.0	50.4	50.9
40	0.0	0.0	0.0	0.0	0.0	56.7	49.9	48.3	47.9	48.0	48.3	48.8	49.2	49.7	50.2	50.7
41	0.0	0.0	0.0	0.0	74.3	50.2	47.7	47.1	47.1	47.5	47.9	48.4	49.0	49.5	50.0	50.5
42	0.0	0.0	0.0	0.0	52.2	47.2	46.2	46.2	46.5	47.0	47.6	48.1	48.7	49.3	49.9	50.4
43	0.0	0.0	0.0	63.6	47.3	45.4	45.2	45.5	46.0	46.6	47.3	47.9	48.5	49.2	49.7	50.3
44	0.0	0.0	0.0	49.0	44.8	44.2	44.4	45.0	45.6	46.3	47.0	47.7	48.4	49.0	49.6	50.2
45	0.0	0.0	62.5	44.8	43.3	43.3	43.8	44.5	45.3	46.1	46.8	47.6	48.3	48.9	49.5	50.1
46	0.0	0.0	46.7	42.5	42.2	42.6	43.4	44.2	45.1	45.9	46.7	47.4	48.1	48.8	49.5	50.1
47	0.0	0.0	42.4	41.1	41.4	42.1	43.0	43.9	44.8	45.7	46.5	47.3	48.0	48.7	49.4	50.0
48	0.0	45.3	40.2	40.0	40.7	41.7	42.7	43.7	44.7	45.6	46.4	47.2	48.0	48.7	49.3	49.9
49	0.0	40.2	38.8	39.3	40.3	41.3	42.4	43.5	44.5	45.4	46.3	47.1	47.9	48.6	49.3	49.9
50	46.9	37.8	37.7	38.7	39.9	41.1	42.2	43.3	44.4	45.3	46.2	47.1	47.8	48.6	49.2	49.9

4. HARNESS

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MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.54

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	16.9	14.8	14.9	15.2	15.6	16.0	16.4	16.8	17.1	17.4	17.7	18.0	18.2	18.5	18.7	18.9			
20	13.3	13.7	14.2	14.8	15.3	15.8	16.3	16.7	17.0	17.3	17.7	17.9	18.2	18.4	18.6	18.8			
21	12.4	13.2	13.9	14.6	15.2	15.7	16.2	16.6	17.0	17.3	17.6	17.9	18.2	18.4	18.6	18.8			
22	12.0	12.9	13.7	14.4	15.1	15.6	16.1	16.5	16.9	17.3	17.6	17.9	18.1	18.4	18.6	18.8			
23	11.8	12.8	13.6	14.3	15.0	15.5	16.0	16.5	16.9	17.2	17.6	17.8	18.1	18.4	18.6	18.8			
24	11.6	12.7	13.5	14.3	14.9	15.5	16.0	16.5	16.9	17.2	17.5	17.8	18.1	18.4	18.6	18.8			
25	11.6	12.6	13.5	14.2	14.9	15.5	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8			
26	11.5	12.6	13.4	14.2	14.9	15.5	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8			
27	11.4	12.5	13.4	14.2	14.9	15.4	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8			
28	11.4	12.5	13.4	14.2	14.9	15.4	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8			
29	11.4	12.5	13.4	14.2	14.9	15.4	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8			
30	11.4	12.5	13.4	14.2	14.9	15.4	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8			
31	11.4	12.5	13.4	14.2	14.9	15.4	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8			
32	11.4	12.4	13.4	14.1	14.8	15.4	15.9	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8			

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MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.56

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	23.4
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.2	22.8	21.6	21.1	20.9	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	21.2	20.5	20.2	20.1	20.0	20.1	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	20.1	19.6	19.4	19.4	19.4	19.5	19.6	19.7	
16	0.0	0.0	0.0	0.0	0.0	21.1	19.2	18.7	18.6	18.6	18.7	18.9	19.0	19.2	19.3	19.5	
17	0.0	0.0	0.0	23.1	18.4	17.8	17.7	17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.2	19.4	
18	0.0	0.0	18.1	16.3	16.7	16.9	17.1	17.4	17.7	17.9	18.2	18.4	18.7	18.9	19.1	19.3	
19	0.0	15.9	15.5	15.7	16.0	16.4	16.8	17.1	17.5	17.8	18.1	18.3	18.6	18.8	19.0	19.2	
20	14.1	14.2	14.7	15.2	15.7	16.2	16.6	17.0	17.4	17.7	18.0	18.3	18.5	18.8	19.0	19.2	
21	12.9	13.6	14.3	14.9	15.5	16.0	16.5	16.9	17.3	17.6	17.9	18.2	18.5	18.7	19.0	19.2	
22	12.4	13.3	14.1	14.8	15.4	15.9	16.4	16.8	17.2	17.6	17.9	18.2	18.5	18.7	19.0	19.2	
23	12.1	13.1	13.9	14.6	15.3	15.9	16.4	16.8	17.2	17.6	17.9	18.2	18.5	18.7	18.9	19.1	
24	11.9	12.9	13.8	14.6	15.2	15.8	16.3	16.8	17.2	17.5	17.9	18.2	18.4	18.7	18.9	19.1	
25	11.9	12.9	13.8	14.5	15.2	15.8	16.3	16.7	17.2	17.5	17.9	18.2	18.4	18.7	18.9	19.1	
26	11.7	12.8	13.7	14.5	15.2	15.7	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.7	18.9	19.1	
27	11.7	12.8	13.7	14.5	15.1	15.7	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.7	18.9	19.1	
28	11.6	12.7	13.7	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.4	18.7	18.9	19.1	
29	11.6	12.7	13.6	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.4	18.7	18.9	19.1	
30	11.6	12.7	13.6	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.4	18.7	18.9	19.1	
31	11.6	12.7	13.6	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.4	18.7	18.9	19.1	
32	11.6	12.7	13.6	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.4	18.7	18.9	19.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.58

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	15.4	14.9	15.2	15.6	16.1	16.5	17.0	17.3	17.7	18.0	18.3	18.6	18.9	19.1	19.3	19.6			
21	13.4	14.0	14.7	15.3	15.8	16.3	16.8	17.2	17.6	18.0	18.3	13.6	18.8	19.1	19.3	19.5			
22	12.7	13.6	14.4	15.1	15.7	16.2	16.7	17.2	17.6	17.9	18.2	18.5	18.8	19.1	19.3	19.5			
23	12.4	13.4	14.2	14.9	15.6	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.0	19.3	19.5			
24	12.2	13.2	14.1	14.9	15.5	16.1	16.6	17.1	17.5	17.9	18.2	18.5	18.8	19.0	19.3	19.5			
25	12.1	13.1	14.0	14.8	15.5	16.1	16.6	17.0	17.5	17.8	18.2	18.5	18.8	19.0	19.3	19.5			
26	12.0	13.1	14.0	14.8	15.4	16.0	16.6	17.0	17.4	17.8	18.2	18.5	18.8	19.0	19.3	19.5			
27	11.9	13.0	13.9	14.7	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.7	19.0	19.2	19.5			
28	11.9	13.0	13.9	14.7	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.7	19.0	19.2	19.5			
29	11.8	12.9	13.9	14.7	15.4	16.0	16.5	17.0	17.4	17.8	18.1	18.5	18.7	19.0	19.2	19.5			
30	11.8	12.9	13.9	14.7	15.4	16.0	16.5	17.0	17.4	17.8	18.1	18.5	18.7	19.0	19.2	19.5			
31	11.8	12.9	13.9	14.7	15.4	16.0	16.5	17.0	17.4	17.8	18.1	18.5	18.7	19.0	19.2	19.5			
32	11.8	12.9	13.9	14.7	15.4	16.0	16.5	17.0	17.4	17.8	18.1	18.5	18.7	19.0	19.2	19.5			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.65

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4	24.9
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.5	24.6	23.3	22.8	22.5	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	23.1	22.2	21.9	21.7	21.7	21.7	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	22.1	21.4	21.1	21.0	21.0	21.1	21.2	21.3	
17	0.0	0.0	0.0	0.0	0.0	26.7	21.4	20.5	20.3	20.2	20.3	20.4	20.6	20.7	20.9	21.0	
18	0.0	0.0	0.0	0.0	21.1	19.7	19.4	19.4	19.5	19.7	19.9	20.1	20.3	20.5	20.7	20.9	
19	0.0	0.0	25.8	19.0	18.4	18.4	18.6	18.9	19.1	19.4	19.7	19.9	20.2	20.4	20.6	20.8	
20	0.0	19.8	17.4	17.3	17.5	17.9	18.2	18.6	18.9	19.2	19.5	19.8	20.1	20.3	20.5	20.7	
21	17.2	16.0	16.2	16.6	17.1	17.5	18.0	18.4	18.8	19.1	19.4	19.7	20.0	20.3	20.5	20.7	
22	14.5	15.0	15.6	16.2	16.8	17.3	17.8	18.3	18.7	19.0	19.4	19.7	20.0	20.2	20.5	20.7	
23	13.6	14.5	15.3	16.0	16.6	17.2	17.7	18.2	18.6	19.0	19.3	19.6	19.9	20.2	20.4	20.7	
24	13.2	14.2	15.1	15.9	16.5	17.1	17.7	18.1	18.6	18.9	19.3	19.6	19.9	20.2	20.4	20.6	
25	13.0	14.0	15.0	15.8	16.5	17.1	17.6	18.1	18.5	18.9	19.3	19.6	19.9	20.2	20.4	20.6	
26	12.8	13.9	14.9	15.7	16.4	17.0	17.5	18.1	18.5	18.9	19.2	19.6	19.9	20.1	20.4	20.6	
27	12.7	13.9	14.8	15.6	16.4	17.0	17.5	18.0	18.5	18.9	19.2	19.6	19.9	20.1	20.4	20.6	
28	12.6	13.8	14.8	15.6	16.3	17.0	17.5	18.0	18.5	18.9	19.2	19.6	19.9	20.1	20.4	20.6	
29	12.6	13.8	14.7	15.6	16.3	17.0	17.5	18.0	18.5	18.9	19.2	19.5	19.8	20.1	20.4	20.6	
30	12.5	13.7	14.7	15.6	16.3	16.9	17.5	18.0	18.4	18.9	19.2	19.5	19.8	20.1	20.4	20.6	
31	12.5	13.7	14.7	15.6	16.3	16.9	17.5	18.0	18.4	18.8	19.2	19.5	19.8	20.1	20.4	20.6	
32	12.5	13.7	14.7	15.5	16.3	16.9	17.5	18.0	18.4	18.8	19.2	19.5	19.8	20.1	20.4	20.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.66

FOUR-HARNES WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.5	25.6
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	23.8	23.1	22.8
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	23.8	22.7	22.2	22.0	21.9	21.9
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	22.8	21.8	21.4	21.2	21.2	21.3	21.4	21.5
17	0.0	0.0	0.0	0.0	0.0	0.0	22.1	20.9	20.6	20.5	20.5	20.6	20.8	20.9	21.1	21.2
18	0.0	0.0	0.0	0.0	22.3	20.1	19.7	19.6	19.7	19.9	20.1	20.3	20.5	20.7	20.9	21.1
19	0.0	0.0	0.0	19.6	18.8	18.7	18.6	19.1	19.3	19.6	19.8	20.1	20.3	20.6	20.8	21.0
20	0.0	22.5	17.9	17.6	17.8	18.1	18.4	18.7	19.1	19.4	19.7	20.0	20.2	20.5	20.7	20.9
21	18.7	16.4	16.4	16.8	17.3	17.7	18.1	18.6	18.9	19.3	19.6	19.9	20.2	20.4	20.6	20.9
22	14.8	15.2	15.8	16.4	17.0	17.5	18.0	18.4	18.8	19.2	19.5	19.8	20.1	20.4	20.6	20.8
23	13.8	14.7	15.5	16.2	16.8	17.4	17.9	18.3	18.8	19.1	19.5	19.8	20.1	20.3	20.6	20.8
24	13.4	14.4	15.2	16.0	16.7	17.3	17.8	18.3	18.7	19.1	19.4	19.8	20.1	20.3	20.6	20.8
25	15.1	14.2	15.1	15.9	16.6	17.2	17.7	18.2	18.7	19.1	19.4	19.7	20.0	20.3	20.6	20.8
26	12.9	14.1	15.0	15.8	16.5	17.2	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.3	20.5	20.8
27	12.8	14.0	14.9	15.8	16.5	17.1	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.3	20.5	20.8
28	12.7	13.9	14.9	15.7	16.5	17.1	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.3	20.5	20.8
29	12.7	13.9	14.9	15.7	16.4	17.1	17.6	18.2	18.6	19.0	19.4	19.7	20.0	20.3	20.5	20.8
30	12.6	13.3	14.8	15.7	16.4	17.1	17.6	18.1	18.6	19.0	19.4	19.7	20.0	20.3	20.5	20.8
31	12.6	13.8	14.8	15.7	16.4	17.1	17.6	18.1	18.6	19.0	19.4	19.7	20.0	20.3	20.5	20.8
32	12.6	13.3	14.8	15.7	16.4	17.1	17.6	18.1	18.6	19.0	19.4	19.7	20.0	20.3	20.5	20.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.67

FOUR-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6	26.5
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	24.4	23.5	23.1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	23.1	22.5	22.3	22.2	22.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	22.2	21.7	21.5	21.5	21.5	21.6	21.7
17	0.0	0.0	0.0	0.0	0.0	0.0	23.0	21.4	20.9	20.7	20.8	20.8	21.0	21.1	21.3	21.4
18	0.0	0.0	0.0	0.0	24.0	20.7	20.0	19.9	20.0	20.1	20.3	20.5	20.7	20.9	21.1	21.2
19	0.0	0.0	0.0	20.4	19.2	19.0	19.1	19.3	19.5	19.8	20.0	20.3	20.5	20.7	20.9	21.1
20	0.0	0.0	18.4	17.9	18.0	18.3	18.6	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.9	21.1
21	22.0	16.8	16.7	17.0	17.5	17.9	18.3	18.7	19.1	19.4	19.8	20.0	20.3	20.6	20.8	21.0
22	15.2	15.5	16.0	16.6	17.1	17.7	18.1	18.6	19.0	19.3	19.7	20.0	20.3	20.5	20.8	21.0
23	14.1	14.9	15.6	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	19.9	20.2	20.5	20.7	21.0
24	13.5	14.5	15.4	16.1	16.8	17.4	17.9	18.4	18.9	19.2	19.6	19.9	20.2	20.5	20.7	21.0
25	13.2	14.3	15.2	16.0	16.7	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	20.9
26	13.1	14.2	15.1	16.0	16.7	17.3	17.9	18.3	18.8	19.2	19.5	19.9	20.2	20.5	20.7	20.9
27	12.9	14.1	15.1	15.9	16.6	17.3	17.8	18.3	18.8	19.2	19.5	19.9	20.2	20.4	20.7	20.9
28	12.9	14.0	15.0	15.9	16.6	17.2	17.8	18.3	18.8	19.2	19.5	19.9	20.2	20.4	20.7	20.9
29	12.8	14.0	15.0	15.8	16.6	17.2	17.8	18.3	18.7	19.1	19.5	19.8	20.2	20.4	20.7	20.9
30	12.8	13.9	15.0	15.8	16.6	17.2	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.4	20.7	20.9
31	12.7	13.9	14.9	15.8	16.5	17.2	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.4	20.7	20.9
32	12.7	13.9	14.9	15.8	16.5	17.2	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.4	20.7	20.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.68

FOUR-HARNES WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	15.7	15.7	16.2	16.8	17.3	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.4	20.7	20.9	21.2
23	14.3	15.0	15.8	16.5	17.1	17.7	18.2	18.6	19.1	19.4	19.8	20.1	20.4	20.7	20.9	21.1
24	13.7	14.7	15.5	16.3	17.0	17.6	18.1	18.6	19.0	19.4	19.7	20.1	20.4	20.6	20.9	21.1
25	13.4	14.5	15.4	16.2	16.9	17.5	18.0	18.5	19.0	19.4	19.7	20.0	20.3	20.6	20.9	21.1
26	13.2	14.3	15.3	16.1	16.8	17.4	18.0	18.5	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.1
27	13.1	14.2	15.2	16.0	16.8	17.4	18.0	18.5	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.1
28	13.0	14.1	15.1	16.0	16.7	17.4	17.9	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.1
29	12.9	14.1	15.1	16.0	16.7	17.3	17.9	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.1
30	12.9	14.1	15.1	15.9	16.7	17.3	17.9	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.1
31	12.8	14.0	15.0	15.9	16.7	17.3	17.9	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.1
32	12.8	14.0	15.0	15.9	16.7	17.3	17.9	18.4	18.9	19.3	19.6	20.0	20.3	20.6	20.9	21.1

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.69

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	25.8	24.4	23.8
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	24.2	23.3	22.9	22.7	22.6	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	23.2	22.4	22.1	22.0	22.0	22.0	22.1
17	0.0	0.0	0.0	0.0	0.0	0.0	26.0	22.4	21.6	21.3	21.2	21.3	21.4	21.5	21.6	21.8
18	0.0	0.0	0.0	0.0	0.0	21.9	20.8	20.5	20.4	20.5	20.7	20.9	21.0	21.2	21.4	21.6
19	0.0	0.0	0.0	23.0	20.0	19.6	19.5	19.7	19.9	20.1	20.4	20.6	20.9	21.1	21.3	21.5
20	0.0	0.0	20.0	18.6	18.5	18.7	19.0	19.3	19.5	19.9	20.2	20.5	20.7	21.0	21.2	21.4
21	0.0	18.0	17.3	17.5	17.8	18.3	18.7	19.0	19.4	19.8	20.1	20.4	20.6	20.9	21.1	21.4
22	16.2	16.0	16.4	16.9	17.5	18.0	18.5	18.9	19.3	19.7	20.0	20.3	20.6	20.8	21.1	21.3
23	14.6	15.2	16.0	16.6	17.3	17.8	18.3	18.8	19.2	19.6	19.9	20.3	20.5	20.8	21.1	21.3
24	13.9	14.8	15.7	16.4	17.1	17.7	18.2	18.7	19.1	19.5	19.9	20.2	20.5	20.8	21.0	21.3
25	13.5	14.6	15.5	16.3	17.0	17.6	18.2	18.7	19.1	19.5	19.9	20.2	20.5	20.8	21.0	21.3
26	13.3	14.4	15.4	16.2	16.9	17.6	18.1	18.6	19.1	19.5	19.8	20.2	20.5	20.8	21.0	21.3
27	13.2	14.3	15.3	16.2	16.9	17.5	18.1	18.6	19.1	19.5	19.8	20.2	20.5	20.7	21.0	21.2
28	13.1	14.3	15.3	16.1	16.9	17.5	18.1	18.6	19.0	19.4	19.8	20.2	20.5	20.7	21.0	21.2
29	13.0	14.2	15.2	16.1	16.8	17.5	18.1	18.6	19.0	19.4	19.8	20.1	20.5	20.7	21.0	21.2
30	13.0	14.2	15.2	16.1	16.8	17.5	18.0	18.6	19.0	19.4	19.8	20.1	20.4	20.7	21.0	21.2
31	12.9	14.1	15.2	16.0	16.8	17.5	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.7	21.0	21.2
32	12.9	14.1	15.1	16.0	16.8	17.4	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.7	21.0	21.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.70

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	16.8	16.3	16.6	17.1	17.7	18.2	18.6	19.1	19.4	19.8	20.1	20.5	20.7	21.0	21.3	21.5			
23	14.8	15.4	16.1	16.8	17.4	18.0	18.5	18.9	19.4	19.7	20.1	20.4	20.7	21.0	21.2	21.5			
24	14.1	15.0	15.8	16.6	17.3	17.8	18.4	18.9	19.3	19.7	20.0	20.4	20.7	20.9	21.2	21.4			
25	13.7	14.7	15.7	16.4	17.1	17.8	18.3	18.8	19.3	19.7	20.0	20.3	20.6	20.9	21.2	21.4			
26	13.4	14.6	15.5	16.4	17.1	17.7	18.3	18.8	19.2	19.6	20.0	20.3	20.6	20.9	21.2	21.4			
27	13.3	14.5	15.4	16.3	17.0	17.7	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.2	21.4			
28	13.2	14.4	15.4	16.2	17.0	17.6	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.2	21.4			
29	13.1	14.3	15.3	16.2	17.0	17.6	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.1	21.4			
30	13.1	14.3	15.3	16.2	16.9	17.6	18.2	18.7	19.2	19.6	19.9	20.3	20.6	20.9	21.1	21.4			
31	13.0	14.2	15.3	16.2	16.9	17.6	18.2	18.7	19.1	19.6	19.9	20.3	20.6	20.9	21.1	21.4			
32	13.0	14.2	15.3	16.1	16.9	17.6	18.2	18.7	19.1	19.6	19.9	20.3	20.6	20.9	21.1	21.4			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.71

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.1	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	25.5 24.6	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6	25.7	24.2	23.6	23.2	23.1	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	24.5	23.2	22.7	22.5	22.4	22.4	22.5	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	22.4	21.9	21.7	21.7	21.8	21.9	22.0	22.1	
18	0.0	0.0	0.0	0.0	0.0	23.9	21.6	21.1	20.9	21.0	21.1	21.3	21.4	21.6	21.8	21.9	
19	0.0	0.0	0.0	0.0	21.2	20.2	20.1	20.1	20.3	20.5	20.7	21.0	21.2	21.4	21.6	21.8	
20	0.0	0.0	22.9	19.5	19.1	19.2	19.4	19.7	20.0	20.3	20.5	20.8	21.1	21.3	21.5	21.7	
21	0.0	19.8	18.0	18.0	18.3	18.6	19.0	19.4	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7	
22	17.7	16.6	16.9	17.3	17.8	18.3	18.8	19.2	19.6	20.0	20.3	20.6	20.9	21.2	21.4	21.6	
23	15.1	15.6	16.3	17.0	17.6	18.1	18.6	19.1	19.5	19.9	20.2	20.6	20.9	21.1	21.4	21.6	
24	14.3	15.2	16.0	16.7	17.4	18.0	18.5	19.0	19.4	19.8	20.2	20.5	20.8	21.1	21.4	21.6	
25	13.8	14.9	15.8	16.6	17.3	17.9	18.5	19.0	19.4	19.8	20.2	20.5	20.8	21.1	21.3	21.6	
26	13.6	14.7	15.7	16.5	17.2	17.8	18.4	18.9	19.4	19.8	20.1	20.5	20.8	21.1	21.3	21.6	
27	13.4	14.6	15.6	16.4	17.2	17.8	18.4	18.9	19.3	19.7	20.1	20.5	20.8	21.1	21.3	21.6	
28	13.3	14.5	15.5	16.4	17.1	17.8	18.3	18.9	19.3	19.7	20.1	20.4	20.8	21.0	21.3	21.5	
29	13.2	14.4	15.4	16.3	17.1	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.5	
30	13.2	14.4	15.4	16.3	17.1	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.5	
31	13.1	14.4	15.4	16.3	17.0	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.5	
32	13.1	14.3	15.4	16.3	17.0	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.72

FOUR-HARNES WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.1	25.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	24.7	23.9	23.5	23.4
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.3	23.5	23.0	22.8	22.7	22.7	22.7
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	22.3	22.2	22.0	22.0	22.0	22.1	22.2	22.3
18	0.0	0.0	0.0	0.0	0.0	25.6	22.1	21.4	21.2	21.2	21.3	21.4	21.6	21.8	21.9	22.1
19	0.0	0.0	0.0	0.0	21.9	20.6	20.3	20.4	20.5	20.7	20.9	21.2	21.4	21.6	21.8	22.0
20	0.0	0.0	27.0	20.0	19.4	19.4	19.6	19.9	20.1	20.4	20.7	21.0	21.2	21.5	21.7	21.9
21	0.0	21.4	18.4	18.3	18.5	18.8	19.2	19.6	19.9	20.2	20.6	20.8	21.1	21.4	21.6	21.8
22	18.9	17.0	17.1	17.5	18.0	18.5	18.9	19.4	19.8	20.1	20.5	20.8	21.1	21.3	21.6	21.8
23	15.5	15.9	16.5	17.1	17.7	18.3	18.8	19.2	19.7	20.0	20.4	20.7	21.0	21.3	21.5	21.8
24	14.5	15.3	16.1	16.9	17.5	18.1	18.7	19.2	19.6	20.0	20.3	20.7	21.0	21.2	21.5	21.7
25	14.0	15.0	15.9	16.7	17.4	18.0	18.6	19.1	19.5	19.9	20.3	20.6	20.9	21.2	21.5	21.7
26	13.7	14.8	15.8	16.6	17.3	18.0	18.5	19.0	19.5	19.9	20.3	20.6	20.9	21.2	21.5	21.7
27	13.5	14.7	15.7	16.5	17.3	17.9	18.5	19.0	19.5	19.9	20.3	20.6	20.9	21.2	21.5	21.7
28	13.4	14.6	15.6	16.5	17.2	17.9	18.5	19.0	19.5	19.9	20.2	20.6	20.9	21.2	21.5	21.7
29	13.3	14.5	15.6	16.4	17.2	17.9	18.5	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.7
30	13.3	14.5	15.5	16.4	17.2	17.8	18.4	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.7
31	13.2	14.5	15.5	16.4	17.2	17.8	18.4	19.0	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7
32	13.2	14.4	15.5	16.4	17.1	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7
33	13.2	14.4	15.5	16.4	17.1	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7
34	13.1	14.4	15.5	16.4	17.1	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7
35	13.1	14.4	15.4	16.3	17.1	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7
36	13.1	14.4	15.4	16.3	17.1	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7
37	13.1	14.4	15.4	16.3	17.1	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7
38	13.1	14.4	15.4	16.3	17.1	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.73

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	26.9	25.5	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	25.2	24.3	23.9	23.6		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	24.1	23.4	23.0	22.9	22.9	22.9		
17	0.0	0.0	0.0	0.0	0.0	0.0	26.0	23.3	22.6	22.3	22.2	22.2	22.3	22.4	22.5		
18	0.0	0.0	0.0	0.0	28.9	22.7	21.8	21.5	21.4	21.5	21.6	21.8	22.0	22.1	22.3		
19	0.0	0.0	0.0	0.0	22.9	21.0	20.6	20.6	20.7	20.9	21.1	21.3	21.5	21.8	22.0	22.2	
20	0.0	0.0	0.0	20.6	19.7	19.6	19.8	20.0	20.3	20.6	20.9	21.1	21.4	21.6	21.8	22.1	
21	0.0	24.8	18.9	18.5	18.7	19.0	19.4	19.7	20.1	20.4	20.7	21.0	21.3	21.5	21.8	22.0	
22	20.9	17.4	17.4	17.7	18.2	18.7	19.1	19.5	19.9	20.3	20.6	20.9	21.2	21.5	21.7	22.0	
23	15.8	16.1	16.7	17.3	17.9	18.4	18.9	19.4	19.8	20.2	20.5	20.9	21.2	21.4	21.7	21.9	
24	14.7	15.5	16.3	17.0	17.7	18.3	18.8	19.3	19.7	20.1	20.5	20.8	21.1	21.4	21.7	21.9	
25	14.2	15.2	16.1	16.9	17.6	18.2	18.7	19.2	19.7	20.1	20.5	20.8	21.1	21.4	21.6	21.9	
26	13.9	15.0	15.9	16.7	17.5	18.1	18.7	19.2	19.6	20.1	20.4	20.8	21.1	21.4	21.6	21.9	
27	13.7	14.8	15.8	16.7	17.4	18.1	18.6	19.2	19.6	20.0	20.4	20.7	21.1	21.3	21.6	21.9	
28	13.5	14.7	15.7	16.6	17.4	18.0	18.6	19.1	19.6	20.0	20.4	20.7	21.1	21.3	21.6	21.9	
29	13.4	14.7	15.7	16.6	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	
30	13.4	14.6	15.6	16.5	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	
31	13.3	14.6	15.6	16.5	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	
32	13.3	14.5	15.6	16.5	17.3	17.9	18.5	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	
33	13.3	14.5	15.6	16.5	17.3	17.9	18.5	19.1	19.5	20.0	20.4	20.7	21.0	21.3	21.6	21.8	
34	13.2	14.5	15.6	16.5	17.3	17.9	18.5	19.1	19.5	20.0	20.4	20.7	21.0	21.3	21.6	21.8	
35	13.2	14.5	15.6	16.5	17.2	17.9	18.5	19.1	19.5	20.0	20.4	20.7	21.0	21.3	21.6	21.8	
36	13.2	14.5	15.5	16.5	17.2	17.9	18.5	19.1	19.5	20.0	20.3	20.7	21.0	21.3	21.6	21.8	
37	13.2	14.5	15.5	16.4	17.2	17.9	18.5	19.1	19.5	20.0	20.3	20.7	21.0	21.3	21.6	21.8	
38	13.2	14.5	15.5	16.4	17.2	17.9	18.5	19.1	19.5	20.0	20.3	20.7	21.0	21.3	21.6	21.8	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.74

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	26.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	25.9	24.7	24.2	23.9	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	24.7	23.8	23.3	23.2	23.1	23.1	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	23.9	22.9	22.6	22.4	22.4	22.5	22.6	22.7	
18	0.0	0.0	0.0	0.0	0.0	0.0	23.4	22.1	21.8	21.7	21.7	21.8	22.0	22.1	22.3	22.5	
19	0.0	0.0	0.0	0.0	24.2	21.5	20.9	20.8	20.9	21.1	21.3	21.5	21.7	21.9	22.1	22.3	
20	0.0	0.0	0.0	21.3	20.1	19.9	20.0	20.2	20.5	20.8	21.0	21.3	21.5	21.8	22.0	22.2	
21	0.0	0.0	19.4	18.8	18.9	19.2	19.5	19.9	20.2	20.6	20.9	21.2	21.4	21.7	21.9	22.2	
22	28.1	17.8	17.6	17.9	18.4	18.8	19.3	19.7	20.1	20.4	20.8	21.1	21.4	21.6	21.9	22.1	
23	16.2	16.3	16.9	17.5	18.0	18.6	19.1	19.5	20.0	20.3	20.7	21.0	21.3	21.6	21.8	22.1	
24	14.9	15.7	16.5	17.2	17.8	18.4	19.0	19.4	19.9	20.3	20.6	21.0	21.3	21.6	21.8	22.0	
25	14.3	15.3	16.2	17.0	17.7	18.3	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	
26	14.0	15.1	16.0	16.9	17.6	18.2	18.8	19.3	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	
27	13.8	14.9	15.9	16.8	17.5	18.2	18.8	19.3	19.8	20.2	20.5	20.9	21.2	21.5	21.8	22.0	
28	13.6	14.8	15.9	16.7	17.5	18.2	18.7	19.3	19.7	20.2	20.5	20.9	21.2	21.5	21.8	22.0	
29	13.5	14.8	15.8	16.7	17.5	18.1	18.7	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.7	22.0	
30	13.5	14.7	15.8	16.7	17.4	18.1	18.7	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.7	22.0	
31	13.4	14.7	15.7	16.6	17.4	18.1	18.7	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.7	22.0	
32	13.4	14.6	15.7	16.6	17.4	18.1	18.7	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.7	22.0	
33	13.4	14.6	15.7	16.6	17.4	18.1	18.7	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.7	22.0	
34	13.3	14.6	15.7	16.6	17.4	18.1	18.7	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.7	22.0	
35	13.3	14.6	15.7	16.6	17.4	18.1	18.7	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.7	22.0	
36	13.3	14.6	15.7	16.6	17.4	18.0	18.7	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.7	22.0	
37	13.3	14.6	15.6	16.6	17.4	18.0	18.6	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.7	22.0	
38	13.3	14.6	15.6	16.6	17.4	18.0	18.6	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.7	22.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.75

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	26.5
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	26.6	25.1	24.5	24.2
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.2	25.3	24.1	23.7	23.4	23.3	23.3
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	24.5	23.3	22.9	22.7	22.7	22.7	22.8	22.9
18	0.0	0.0	0.0	0.0	0.0	0.0	24.3	22.6	22.1	21.9	22.0	22.0	22.2	22.3	22.5	22.6
19	0.0	0.0	0.0	0.0	26.2	22.0	21.3	21.1	21.2	21.3	21.5	21.7	21.9	22.1	22.3	22.5
20	0.0	0.0	0.0	22.2	20.5	20.2	20.2	20.4	20.7	20.9	21.2	21.5	21.7	21.9	22.2	22.4
21	0.0	0.0	19.1	19.2	19.4	19.7	20.1	20.4	20.7	21.0	21.3	21.6	21.8	22.1	22.3	
22	0.0	18.4	17.9	18.2	18.6	19.0	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.3
23	16.7	16.6	17.1	17.6	18.2	18.7	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.7	22.0	22.2
24	15.2	15.9	16.6	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.8	21.1	21.4	21.7	22.0	22.2
25	14.5	15.5	16.4	17.1	17.8	18.5	19.0	19.5	20.0	20.4	20.7	21.1	21.4	21.7	21.9	22.2
26	14.1	15.2	16.2	17.0	17.7	18.4	19.0	19.5	19.9	20.3	20.7	21.1	21.4	21.7	21.9	22.2
27	13.9	15.1	16.1	16.9	17.7	18.3	18.9	19.4	19.9	20.3	20.7	21.0	21.4	21.6	21.9	22.2
28	13.8	15.0	16.0	16.9	17.6	18.3	18.9	19.4	19.9	20.3	20.7	21.0	21.3	21.6	21.9	22.2
29	13.6	14.9	15.9	16.8	17.6	18.3	18.8	19.4	19.8	20.3	20.7	21.0	21.3	21.6	21.9	22.1
30	13.6	14.8	15.9	16.8	17.5	18.2	18.8	19.4	19.8	20.3	20.7	21.0	21.3	21.6	21.9	22.1
31	13.5	14.8	15.8	16.7	17.5	18.2	18.8	19.3	19.8	20.3	20.6	21.0	21.3	21.6	21.9	22.1
32	13.5	14.7	15.8	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.1
33	13.5	14.7	15.8	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.1
34	13.4	14.7	15.8	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.1
35	13.4	14.7	15.8	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.1
36	13.4	14.7	15.8	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.1
37	13.4	14.7	15.8	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.1
38	13.4	14.7	15.7	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.1

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.76

FOUR-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.77

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1	27.9
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	26.2	25.2	24.8
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	25.0	24.3	24.0	23.8	23.8	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	24.2	23.5	23.2	23.1	23.1	23.2	23.3	
18	0.0	0.0	0.0	0.0	0.0	0.0	26.8	23.5	22.7	22.4	22.4	22.5	22.6	22.7	22.8	23.0	
19	0.0	0.0	0.0	0.0	0.0	23.3	22.0	21.6	21.6	21.7	21.9	22.0	22.2	22.4	22.6	22.8	
20	0.0	0.0	0.0	25.5	21.4	20.8	20.7	20.8	21.1	21.3	21.6	21.8	22.0	22.3	22.5	22.7	
21	0.0	0.0	21.9	19.9	19.7	19.8	20.1	20.4	20.7	21.1	21.4	21.6	21.9	22.2	22.4	22.6	
22	0.0	19.8	18.5	18.6	18.9	19.3	19.8	20.2	20.5	20.9	21.2	21.5	21.8	22.1	22.3	22.6	
23	18.0	17.2	17.5	18.0	18.5	19.1	19.5	20.0	20.4	20.8	21.1	21.5	21.8	22.0	22.3	22.5	
24	15.7	16.3	17.0	17.6	18.3	18.9	19.4	19.9	20.3	20.7	21.1	21.4	21.7	22.0	22.3	22.5	
25	14.9	15.8	16.7	17.4	18.1	18.7	19.3	19.8	20.2	20.7	21.0	21.4	21.7	22.0	22.2	22.5	
26	14.4	15.5	16.4	17.3	18.0	18.6	19.2	19.7	20.2	20.6	21.0	21.3	21.7	21.9	22.2	22.5	
27	14.2	15.3	16.3	17.2	17.9	18.6	19.2	19.7	20.2	20.6	21.0	21.3	21.6	21.9	22.2	22.5	
28	14.0	15.2	16.2	17.1	17.9	18.5	19.1	19.7	20.1	20.6	21.0	21.3	21.6	21.9	22.2	22.4	
29	13.9	15.1	16.1	17.0	17.8	18.5	19.1	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
30	13.8	15.0	16.1	17.0	17.8	18.5	19.1	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
31	13.7	15.0	16.1	17.0	17.8	18.5	19.1	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
32	13.7	15.0	16.0	17.0	17.7	18.4	19.1	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
33	13.6	14.9	16.0	16.9	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
34	13.6	14.9	16.0	16.9	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
35	13.6	14.9	16.0	16.9	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
36	13.6	14.9	16.0	16.9	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
37	13.6	14.9	16.0	16.9	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	
38	13.6	14.9	16.0	16.9	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.78

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	28.8
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	26.8	25.6	25.1	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1	25.6	24.7	24.3	24.1	24.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	24.7	23.8	23.5	23.4	23.3	23.4	23.5	
18	0.0	0.0	0.0	0.0	0.0	0.0	29.3	24.1	23.1	22.7	22.6	22.7	22.8	22.9	23.0	23.2	
19	0.0	0.0	0.0	0.0	0.0	24.1	22.4	21.9	21.8	21.9	22.1	22.2	22.4	22.6	22.8	23.0	
20	0.0	0.0	0.0	30.1	21.9	21.1	21.0	21.1	21.3	21.5	21.7	22.0	22.2	22.4	22.7	22.9	
21	0.0	0.0	23.4	20.3	20.0	20.1	20.3	20.6	20.9	21.2	21.5	21.8	22.1	22.3	22.6	22.8	
22	0.0	20.8	18.9	18.9	19.1	19.5	19.9	20.3	20.7	21.0	21.4	21.7	22.0	22.2	22.5	22.7	
23	18.9	17.5	17.7	18.2	18.7	19.2	19.7	20.1	20.6	20.9	21.3	21.6	21.9	22.2	22.4	22.7	
24	16.0	16.5	17.1	17.8	18.4	19.0	19.5	20.0	20.5	20.9	21.2	21.6	21.9	22.1	22.4	22.7	
25	15.1	16.0	16.8	17.6	18.3	18.9	19.4	19.9	20.4	20.8	21.2	21.5	21.8	22.1	22.4	22.6	
26	14.6	15.6	16.6	17.4	18.1	18.8	19.4	19.9	20.3	20.7	21.1	21.5	21.8	22.1	22.4	22.6	
27	14.3	15.4	16.4	17.3	18.1	18.7	19.3	19.8	20.3	20.7	21.1	21.5	21.8	22.1	22.4	22.6	
28	14.1	15.3	16.3	17.2	18.0	18.7	19.3	19.8	20.3	20.7	21.1	21.4	21.8	22.1	22.3	22.6	
29	14.0	15.2	16.3	17.2	17.9	18.6	19.2	19.8	20.3	20.7	21.1	21.4	21.8	22.1	22.3	22.6	
30	13.9	15.1	16.2	17.1	17.9	18.6	19.2	19.8	20.2	20.7	21.1	21.4	21.8	22.1	22.3	22.6	
31	13.8	15.1	16.2	17.1	17.9	18.6	19.2	19.7	20.2	20.7	21.1	21.4	21.7	22.0	22.3	22.6	
32	13.8	15.1	16.1	17.1	17.9	18.6	19.2	19.7	20.2	20.7	21.1	21.4	21.7	22.0	22.3	22.6	
33	13.7	15.0	16.1	17.0	17.9	18.6	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	22.6	
34	13.7	15.0	16.1	17.0	17.8	18.5	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	22.6	
35	13.7	15.0	16.1	17.0	17.8	18.5	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	22.6	
36	13.7	15.0	16.1	17.0	17.8	18.5	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	22.6	
37	13.7	15.0	16.1	17.0	17.8	18.5	19.1	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	22.6	
38	13.7	15.0	16.1	17.0	17.8	18.5	19.1	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	22.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.79

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.9
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6	27.4	26.1	25.4	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	26.1	25.0	24.6	24.3	24.2	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	25.3	24.2	23.8	23.6	23.6	23.6	23.7	
18	0.0	0.0	0.0	0.0	0.0	0.0	38.0	24.7	23.4	23.0	22.9	22.9	23.0	23.1	23.2	23.3	
19	0.0	0.0	0.0	0.0	0.0	25.1	22.8	22.2	22.1	22.1	22.2	22.4	22.6	22.8	23.0	23.1	
20	0.0	0.0	0.0	0.0	22.5	21.4	21.2	21.3	21.4	21.7	21.9	22.1	22.4	22.6	22.8	23.0	
21	0.0	0.0	26.2	20.8	20.2	20.3	20.5	20.8	21.1	21.4	21.7	22.0	22.2	22.5	22.7	22.9	
22	0.0	22.4	19.3	19.1	19.4	19.7	20.1	20.5	20.9	21.2	21.5	21.8	22.1	22.4	22.6	22.9	
23	20.2	17.9	18.0	18.4	18.9	19.4	19.8	20.3	20.7	21.1	21.4	21.8	22.1	22.3	22.6	22.8	
24	16.3	16.7	17.3	18.0	18.6	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	22.6	22.8	
25	15.3	16.1	17.0	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.7	22.0	22.3	22.5	22.8	
26	14.7	15.8	16.7	17.5	18.3	18.9	19.5	20.0	20.5	20.9	21.3	21.6	21.9	22.2	22.5	22.8	
27	14.4	15.6	16.6	17.4	18.2	18.8	19.4	20.0	20.4	20.9	21.2	21.6	21.9	22.2	22.5	22.7	
28	14.2	15.4	16.5	17.1	18.1	18.8	19.4	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.5	22.7	
29	14.1	15.3	16.4	17.3	18.1	18.8	19.4	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.5	22.7	
30	14.0	15.3	16.3	17.2	18.0	18.7	19.3	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.5	22.7	
31	13.9	15.2	16.3	17.2	18.0	18.7	19.3	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.5	22.7	
32	13.9	15.2	16.3	17.2	18.0	18.7	19.3	19.9	20.3	20.8	21.2	21.5	21.9	22.2	22.5	22.7	
33	13.8	15.1	16.2	17.2	18.0	18.7	19.3	19.8	20.3	20.8	21.2	21.5	21.9	22.2	22.5	22.7	
34	13.8	15.1	16.2	17.1	18.0	18.7	19.3	19.8	20.3	20.8	21.2	21.5	21.9	22.2	22.5	22.7	
35	13.8	15.1	16.2	17.1	17.9	18.7	19.3	19.8	20.3	20.8	21.2	21.5	21.9	22.2	22.5	22.7	
36	13.8	15.1	16.2	17.1	17.9	18.7	19.3	19.8	20.3	20.8	21.2	21.5	21.9	22.2	22.5	22.7	
37	13.8	15.1	16.2	17.1	17.9	18.6	19.3	19.8	20.3	20.8	21.2	21.5	21.9	22.2	22.5	22.7	
38	13.7	15.1	16.2	17.1	17.9	18.6	19.3	19.8	20.3	20.8	21.2	21.5	21.9	22.2	22.5	22.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.80

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.3	28.3	26.5	25.8
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	26.8	25.4	24.9	24.6	24.5
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.9	25.9	24.6	24.1	23.9	23.8	23.8	23.9
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	23.8	23.3	23.1	23.1	23.2	23.3	23.4	23.5
19	0.0	0.0	0.0	0.0	0.0	26.6	23.3	22.5	22.3	22.3	22.4	22.6	22.8	22.9	23.1	23.3
20	0.0	0.0	0.0	0.0	23.3	21.8	21.5	21.5	21.6	21.8	22.1	22.3	22.5	22.8	23.0	23.2
21	0.0	0.0	0.0	21.3	20.5	20.5	20.7	21.0	21.3	21.5	21.8	22.1	22.4	22.6	22.9	23.1
22	0.0	25.4	19.7	19.4	19.6	19.9	20.3	20.6	21.0	21.4	21.7	22.0	22.3	22.5	22.8	23.0
23	22.5	18.3	18.2	18.6	19.0	19.5	20.0	20.4	20.9	21.2	21.6	21.9	22.2	22.5	22.7	23.0
24	16.7	16.9	17.5	18.1	18.7	19.3	19.8	20.3	20.7	21.1	21.5	21.8	22.2	22.4	22.7	22.9
25	15.5	16.3	17.1	17.9	18.5	19.2	19.7	20.2	20.7	21.1	21.5	21.8	22.1	22.4	22.7	22.9
26	14.9	15.9	16.9	17.7	18.4	19.0	19.6	20.1	20.6	21.0	21.4	21.8	22.1	22.4	22.7	22.9
27	14.6	15.7	16.7	17.6	18.3	19.0	19.6	20.1	20.6	21.0	21.4	21.7	22.1	22.4	22.6	22.9
28	14.3	15.5	16.6	17.5	18.2	18.9	19.5	20.1	20.5	21.0	21.4	21.7	22.1	22.4	22.6	22.9
29	14.2	15.4	16.5	17.4	18.2	18.9	19.5	20.0	20.5	21.0	21.4	21.7	22.0	22.3	22.6	22.9
30	14.1	15.4	16.4	17.4	18.2	18.8	19.5	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9
31	14.0	15.3	16.4	17.3	18.1	18.8	19.4	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9
32	14.0	15.3	16.4	17.3	18.1	18.8	19.4	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9
33	13.9	15.2	16.3	17.3	18.1	18.8	19.4	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9
34	13.9	15.2	16.3	17.3	18.1	18.8	19.4	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9
35	13.9	15.2	16.3	17.2	18.1	18.8	19.4	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9
36	13.9	15.2	16.3	17.2	18.1	18.8	19.4	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9
37	13.8	15.2	16.3	17.2	18.0	18.8	19.4	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9
38	13.8	15.2	16.3	17.2	18.0	18.8	19.4	20.0	20.4	20.9	21.3	21.7	22.0	22.3	22.6	22.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.81

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	27.0	26.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2	27.6	25.9	25.2	24.9	24.7	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.7	25.0	24.4	24.1	24.0	24.0	24.1	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	24.3	23.6	23.4	23.3	23.4	23.4	23.6	23.7	
19	0.0	0.0	0.0	0.0	0.0	29.1	23.8	22.9	22.6	22.6	22.6	22.8	22.9	23.1	23.3	23.5	
20	0.0	0.0	0.0	0.0	24.2	22.2	21.7	21.7	21.8	22.0	22.2	22.5	22.7	22.9	23.1	23.3	
21	0.0	0.0	0.0	22.7	20.9	20.6	20.9	21.1	21.4	21.7	22.0	22.3	22.5	22.8	23.0	23.2	
22	0.0	0.0	20.3	19.7	19.8	20.1	20.4	20.8	21.2	21.5	21.8	22.1	22.4	22.7	22.9	23.2	
23	34.1	18.7	18.5	18.8	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.1	22.4	22.6	22.9	23.1	
24	17.1	17.2	17.7	18.3	18.9	19.5	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.8	23.1	
25	15.7	16.5	17.3	18.0	18.7	19.3	19.8	20.4	20.8	21.2	21.6	21.9	22.3	22.6	22.8	23.1	
26	15.1	16.1	17.0	17.8	18.5	19.2	19.8	20.3	20.7	21.2	21.6	21.9	22.2	22.5	22.8	23.1	
27	14.7	15.8	16.8	17.7	18.4	19.1	19.7	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.8	23.0	
28	14.5	15.7	16.7	17.6	18.4	19.0	19.7	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.8	23.0	
29	14.3	15.6	16.6	17.5	18.3	19.0	19.6	20.2	20.6	21.1	21.5	21.8	22.2	22.5	22.8	23.0	
30	14.2	15.5	16.5	17.5	18.3	19.0	19.6	20.1	20.6	21.1	21.5	21.8	22.2	22.5	22.8	23.0	
31	14.1	15.4	16.5	17.4	18.2	18.9	19.6	20.1	20.6	21.1	21.5	21.8	22.2	22.5	22.7	23.0	
32	14.1	15.4	16.5	17.4	18.2	18.9	19.6	20.1	20.6	21.1	21.5	21.8	22.2	22.5	22.7	23.0	
33	14.0	15.3	16.4	17.4	18.2	18.9	19.5	20.1	20.6	21.0	21.5	21.8	22.2	22.5	22.7	23.0	
34	14.0	15.3	16.4	17.4	18.2	18.9	19.5	20.1	20.6	21.0	21.4	21.8	22.1	22.5	22.7	23.0	
35	14.0	15.3	16.4	17.4	18.2	18.9	19.5	20.1	20.6	21.0	21.4	21.8	22.1	22.5	22.7	23.0	
36	13.9	15.3	16.4	17.3	18.2	18.9	19.5	20.1	20.6	21.0	21.4	21.8	22.1	22.5	22.7	23.0	
37	13.9	15.3	16.4	17.3	18.2	18.9	19.5	20.1	20.6	21.0	21.4	21.8	22.1	22.5	22.7	23.0	
38	13.9	15.3	16.4	17.3	18.2	18.9	19.5	20.1	20.6	21.0	21.4	21.8	22.1	22.5	22.7	23.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.82

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.9
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	27.6	26.5
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	26.4	25.5	25.1	24.9	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	25.5	24.7	24.4	24.2	24.2	24.2	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	24.8	23.9	23.6	23.5	23.6	23.6	23.7	23.9	
19	0.0	0.0	0.0	0.0	0.0	37.2	24.4	23.2	22.9	22.8	22.8	23.0	23.1	23.3	23.5	23.6	
20	0.0	0.0	0.0	0.0	25.5	22.6	22.0	21.9	22.0	22.2	22.4	22.6	22.9	23.1	23.3	23.5	
21	0.0	0.0	0.0	22.7	21.2	21.0	21.1	21.3	21.6	21.9	22.2	22.4	22.7	22.9	23.2	23.4	
22	0.0	0.0	20.8	20.0	20.0	20.3	20.6	21.0	21.3	21.7	22.0	22.3	22.6	22.8	23.1	23.3	
23	0.0	19.2	18.7	18.0	19.4	19.9	20.3	20.7	21.1	21.5	21.9	22.2	22.5	22.8	23.0	23.3	
24	17.6	17.4	17.9	18.5	19.1	19.6	20.1	20.6	21.0	21.4	21.8	22.1	22.4	22.7	23.0	23.2	
25	15.9	16.7	17.4	18.2	18.8	19.4	20.0	20.5	20.9	21.4	21.7	22.1	22.4	22.7	23.0	23.2	
26	15.2	16.2	17.1	17.9	18.7	19.3	19.9	20.4	20.9	21.3	21.7	22.0	22.4	22.7	22.9	23.2	
27	14.8	16.0	16.9	17.8	18.6	19.2	19.8	20.4	20.8	21.3	21.7	22.0	22.3	22.6	22.9	23.2	
28	14.6	15.8	16.8	17.7	18.5	19.2	19.8	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.2	
29	14.4	15.7	16.7	17.6	18.4	19.1	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.2	
30	14.3	15.6	16.7	17.6	18.4	19.1	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.2	
31	14.2	15.5	16.6	17.5	18.4	19.1	19.7	20.2	20.7	21.2	21.6	22.0	22.3	22.6	22.9	23.2	
32	14.2	15.5	16.6	17.5	18.3	19.0	19.7	20.2	20.7	21.2	21.6	22.0	22.3	22.6	22.9	23.1	
33	14.1	15.4	16.5	17.5	18.3	19.0	19.7	20.2	20.7	21.2	21.6	22.0	22.3	22.6	22.9	23.1	
34	14.1	15.4	16.5	17.5	18.3	19.0	19.7	20.2	20.7	21.2	21.6	21.9	22.3	22.6	22.9	23.1	
35	14.1	15.4	16.5	17.5	18.3	19.0	19.6	20.2	20.7	21.2	21.6	21.9	22.3	22.6	22.9	23.1	
36	14.0	15.4	16.5	17.5	18.3	19.0	19.6	20.2	20.7	21.2	21.6	21.9	22.3	22.6	22.9	23.1	
37	14.0	15.4	16.5	17.4	18.3	19.0	19.6	20.2	20.7	21.2	21.6	21.9	22.3	22.6	22.9	23.1	
38	14.0	15.3	16.5	17.4	18.3	19.0	19.6	20.2	20.7	21.2	21.5	21.9	22.3	22.6	22.9	23.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.83

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	28.2	26.9	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	26.9	25.9	25.4	25.2	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	26.0	25.0	24.7	24.5	24.4	24.4	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6	25.3	24.3	23.9	23.8	23.8	23.8	23.9	24.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	25.1	23.6	23.1	23.0	23.1	23.2	23.3	23.5	23.6	23.8	
20	0.0	0.0	0.0	0.0	27.4	23.1	22.3	22.2	22.2	22.4	22.6	22.8	23.0	23.2	23.5	23.7	
21	0.0	0.0	0.0	23.7	21.6	21.3	21.3	21.5	21.8	22.0	22.3	22.6	22.8	23.1	23.3	23.5	
22	0.0	0.0	21.5	20.3	20.2	20.5	20.8	21.1	21.5	21.8	22.1	22.4	22.7	23.0	23.2	23.5	
23	0.0	19.8	19.0	19.2	19.6	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.9	23.2	23.4	
24	19.2	17.7	14.1	19.6	19.2	19.8	20.3	20.7	21.2	21.6	21.9	22.3	22.6	22.9	23.1	23.4	
25	16.2	16.8	17.6	18.3	19.0	19.6	20.1	20.6	21.1	21.5	21.9	22.2	22.5	22.8	23.1	23.4	
26	15.4	16.4	17.3	18.1	18.8	19.5	20.0	20.5	21.0	21.4	21.8	22.2	22.5	22.8	23.1	23.3	
27	15.0	16.1	17.1	17.9	18.7	19.4	20.0	20.5	21.0	21.4	21.8	22.2	22.5	22.8	23.1	23.3	
28	14.7	15.9	16.9	17.8	18.6	19.3	19.9	20.4	20.9	21.4	21.8	22.1	22.5	22.8	23.1	23.3	
29	14.5	15.8	16.8	17.8	18.6	19.3	19.9	20.4	20.9	21.4	21.8	22.1	22.5	22.8	23.0	23.3	
30	14.4	15.7	16.8	17.7	18.5	19.2	19.8	20.4	20.9	21.3	21.7	22.1	22.4	22.8	23.0	23.3	
31	14.3	15.6	16.7	17.7	18.5	19.2	19.8	20.4	20.9	21.3	21.7	22.1	22.4	22.7	23.0	23.3	
32	14.3	15.6	16.7	17.6	18.5	19.2	19.8	20.4	20.9	21.3	21.7	22.1	22.4	22.7	23.0	23.3	
33	14.2	15.5	16.7	17.6	18.4	19.2	19.8	20.4	20.9	21.3	21.7	22.1	22.4	22.7	23.0	23.3	
34	14.2	15.5	16.6	17.6	18.4	19.1	19.8	20.3	20.8	21.3	21.7	22.1	22.4	22.7	23.0	23.3	
35	14.1	15.5	16.6	17.6	18.4	19.1	19.8	20.3	20.8	21.3	21.7	22.1	22.4	22.7	23.0	23.3	
36	14.1	15.5	16.6	17.6	18.4	19.1	19.8	20.3	20.8	21.3	21.7	22.1	22.4	22.7	23.0	23.3	
37	14.1	15.5	16.6	17.6	18.4	19.1	19.8	20.3	20.8	21.3	21.7	22.1	22.4	22.7	23.0	23.3	
38	14.1	15.4	16.6	17.5	18.4	19.1	19.8	20.3	20.8	21.3	21.7	22.1	22.4	22.7	23.0	23.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.84

FOUR-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.85

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.86

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.6	28.9	27.1	26.4	26.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.2	27.9	26.2	25.5	25.2	25.1	25.1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	25.5	24.8	24.5	24.4	24.4	24.5	24.6
19	0.0	0.0	0.0	0.0	0.0	0.0	28.7	24.9	24.0	23.7	23.7	23.7	23.9	24.0	24.1	24.3
20	0.0	0.0	0.0	0.0	0.0	25.0	23.4	23.0	22.9	23.0	23.1	23.3	23.5	23.7	23.9	24.1
21	0.0	0.0	0.0	31.6	23.0	22.1	22.0	22.1	22.3	22.6	22.8	23.1	23.3	23.6	23.8	24.0
22	0.0	0.0	25.4	21.5	21.0	21.1	21.3	21.6	22.0	22.3	22.6	22.9	23.2	23.4	23.7	23.9
23	0.0	22.8	20.0	19.9	20.2	20.5	21.0	21.4	21.7	22.1	22.5	22.8	23.1	23.4	23.6	23.9
24	21.0	18.6	18.7	19.2	19.7	20.2	20.7	21.2	21.6	22.0	22.4	22.7	23.0	23.3	23.6	23.8
25	17.1	17.4	18.1	18.8	19.4	20.0	20.5	21.0	21.5	21.9	22.3	22.6	23.0	23.3	23.5	23.8
26	16.0	16.9	17.7	18.5	19.2	19.9	20.4	20.9	21.4	21.9	22.2	22.6	22.9	23.2	23.5	23.8
27	15.4	16.5	17.5	18.3	19.1	19.7	20.3	20.9	21.4	21.8	22.2	22.6	22.9	23.2	23.5	23.7
28	15.1	16.3	17.3	18.2	19.0	19.7	20.3	20.8	21.3	21.8	22.2	22.5	22.9	23.2	23.5	23.7
29	14.9	16.1	17.2	18.1	18.9	19.6	20.2	20.8	21.3	21.7	22.2	22.5	22.9	23.2	23.5	23.7
30	14.7	16.0	17.1	18.0	18.9	19.6	20.2	20.8	21.3	21.7	22.1	22.5	22.9	23.2	23.5	23.7
31	14.6	15.9	17.0	18.0	18.8	19.5	20.2	20.7	21.3	21.7	22.1	22.5	22.8	23.2	23.4	23.7
32	14.5	15.9	17.0	18.0	18.8	19.5	20.2	20.7	21.2	21.7	22.1	22.5	22.8	23.2	23.4	23.7
33	14.5	15.8	17.0	17.9	18.8	19.5	20.1	20.7	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.7
34	14.4	15.8	16.9	17.9	18.8	19.5	20.1	20.7	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.7
35	14.4	15.8	16.9	17.9	18.7	19.5	20.1	20.7	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.7
36	14.4	15.8	16.9	17.9	18.7	19.5	20.1	20.7	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.7
37	14.4	15.7	16.9	17.9	18.7	19.5	20.1	20.7	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.7
38	14.4	15.7	16.9	17.9	18.7	19.5	20.1	20.7	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.7

MAXIMUM FILLING COVER FACTORS (K_F) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.87

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	29.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	27.6	26.7	26.3	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	26.6	25.9	25.5	25.3	25.3	25.3	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	25.9	25.1	24.8	24.6	24.7	24.8		
19	0.0	0.0	0.0	0.0	0.0	31.3	26.5	24.4	24.0	23.9	23.9	24.0	24.2	24.3	24.5		
20	0.0	0.0	0.0	0.0	25.9	23.3	23.2	23.1	23.2	23.3	23.5	23.7	23.7	23.7	24.1	24.3	
21	0.0	0.0	0.0	0.0	23.6	22.5	22.3	22.5	22.7	23.0	23.2	23.5	23.7	23.9	24.2		
22	0.0	0.0	28.9	21.0	21.3	21.5	21.8	22.1	22.4	22.8	23.0	23.3	23.6	23.8	24.1		
23	0.0	25.0	20.5	20.1	20.4	20.7	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.5	23.8	24.0	
24	23.2	19.0	19.0	19.4	19.9	20.4	20.9	21.3	21.7	22.1	22.5	22.8	23.2	23.4	23.7	24.0	
25	17.5	17.7	18.3	18.9	19.6	20.1	20.7	21.2	21.6	22.0	22.4	22.8	23.1	23.4	23.7	23.9	
26	16.2	17.0	17.9	18.6	19.3	20.0	20.6	21.1	21.6	22.0	22.4	22.7	23.1	23.4	23.6	23.9	
27	15.6	16.6	17.6	18.5	19.2	19.9	20.5	21.0	21.5	21.9	22.3	22.7	23.0	23.3	23.6	23.9	
28	15.2	16.4	17.4	18.3	19.1	19.8	20.4	21.0	21.5	21.9	22.3	22.7	23.0	23.3	23.6	23.9	
29	15.0	16.2	17.3	18.2	19.0	19.7	20.4	20.9	21.4	21.9	22.3	22.7	23.0	23.3	23.6	23.9	
30	14.8	16.1	17.2	18.2	19.0	19.7	20.3	20.9	21.4	21.9	22.3	22.6	23.0	23.3	23.6	23.9	
31	14.7	16.0	17.2	18.1	18.9	19.7	20.3	20.9	21.4	21.8	22.3	22.6	23.0	23.3	23.6	23.9	
32	14.6	16.0	17.1	18.1	18.9	19.6	20.3	20.9	21.4	21.8	22.2	22.6	23.0	23.3	23.6	23.8	
33	14.6	15.9	17.1	18.0	18.9	19.6	20.3	20.8	21.4	21.8	22.2	22.6	23.0	23.3	23.6	23.8	
34	14.5	15.9	17.0	18.0	18.9	19.6	20.3	20.8	21.3	21.8	22.2	22.6	23.0	23.3	23.6	23.8	
35	14.5	15.9	17.0	18.0	18.9	19.6	20.2	20.8	21.3	21.8	22.2	22.6	23.0	23.3	23.6	23.8	
36	14.5	15.8	17.0	18.0	18.8	19.6	20.2	20.8	21.3	21.8	22.2	22.6	23.0	23.3	23.6	23.8	
37	14.5	15.8	17.0	18.0	18.8	19.6	20.2	20.9	21.3	21.8	22.2	22.6	23.0	23.3	23.6	23.8	
38	14.4	15.8	17.0	18.0	18.8	19.6	20.2	20.9	21.3	21.8	22.2	22.6	22.9	23.3	23.5	23.8	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.88

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.3	29.6
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	28.1	27.1	26.5	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	27.1	26.2	25.8	25.6	25.5	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	26.4	25.4	25.0	24.9	24.2	24.9	24.9	
19	0.0	0.0	0.0	0.0	0.0	0.0	39.5	26.1	24.7	24.3	24.1	24.1	24.2	24.3	24.5	24.6	
20	0.0	0.0	0.0	0.0	0.0	27.0	24.2	23.5	23.4	23.4	23.5	23.7	23.9	24.1	24.2	24.4	
21	0.0	0.0	0.0	0.0	24.3	22.8	22.5	22.5	22.7	22.9	23.1	23.4	23.6	23.9	24.1	24.3	
22	0.0	0.0	0.0	22.5	21.6	21.5	21.7	22.0	22.3	22.6	22.9	23.2	23.5	23.7	24.0	24.2	
23	0.0	30.8	20.9	20.4	20.6	20.9	21.3	21.7	22.1	22.4	22.8	23.1	23.4	23.6	23.9	24.2	
24	29.4	19.4	19.2	19.6	20.0	20.5	21.0	21.5	21.9	22.3	22.6	23.0	23.3	23.6	23.9	24.1	
25	17.9	17.9	18.4	19.1	19.7	20.3	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.8	24.1	
26	16.4	17.2	18.0	18.8	19.5	20.1	20.7	21.2	21.7	22.1	22.5	22.9	23.2	23.5	23.8	24.0	
27	15.7	16.8	17.7	18.6	19.3	20.0	20.6	21.1	21.6	22.1	22.5	22.8	23.2	23.5	23.8	24.0	
28	15.4	16.5	17.6	18.4	19.2	19.9	20.5	21.1	21.6	22.0	22.4	22.8	23.2	23.5	23.7	24.0	
29	15.1	16.4	17.4	18.3	19.2	19.9	20.5	21.0	21.6	22.0	22.4	22.8	23.1	23.4	23.7	24.0	
30	14.9	16.2	17.3	18.3	19.1	19.8	20.5	21.0	21.5	22.0	22.4	22.8	23.1	23.4	23.7	24.0	
31	14.8	16.1	17.3	18.2	19.1	19.8	20.4	21.0	21.5	22.0	22.4	22.8	23.1	23.4	23.7	24.0	
32	14.7	16.1	17.2	18.2	19.0	19.8	20.4	21.0	21.5	22.0	22.4	22.8	23.1	23.4	23.7	24.0	
33	14.7	16.0	17.2	18.2	19.0	19.7	20.4	21.0	21.5	21.9	22.4	22.7	23.1	23.4	23.7	24.0	
34	14.6	16.0	17.1	18.1	19.0	19.7	20.4	21.0	21.5	21.9	22.4	22.7	23.1	23.4	23.7	24.0	
35	14.6	16.0	17.1	18.1	19.0	19.7	20.4	20.9	21.5	21.9	22.4	22.7	23.1	23.4	23.7	24.0	
36	14.5	15.9	17.1	18.1	19.0	19.7	20.4	20.9	21.5	21.9	22.4	22.7	23.1	23.4	23.7	24.0	
37	14.5	15.9	17.1	18.1	18.9	19.7	20.3	20.9	21.5	21.9	22.3	22.7	23.1	23.4	23.7	24.0	
38	14.5	15.9	17.1	18.1	18.9	19.7	20.3	20.9	21.5	21.9	22.3	22.7	23.1	23.4	23.7	24.0	

MAXIMUM FILLING COVER FACTORS (F2) IN TERMS OF WARP COVER FACTOR AND BETA

WARP BULK DENSITY = 0.89

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.4	30.4	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6	28.7	27.4
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	26.0	25.8
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.3	25.1	25.1
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4	24.4	24.7
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	24.2	24.6
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	24.0	24.5
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	23.8	24.2
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3	23.6	24.1
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	23.5	24.3
25	18.3	18.1	18.6	19.2	19.8	20.4	21.0	21.5	21.9	22.3	22.7	23.1	23.4	23.7	24.0	24.2	23.4	23.7	24.2
26	16.7	17.4	18.2	18.9	19.6	20.3	20.8	21.3	21.8	22.3	22.6	23.0	23.3	23.6	23.9	24.2	23.3	23.6	24.2
27	15.9	16.9	17.9	18.7	19.5	20.1	20.7	21.3	21.8	22.2	22.6	23.0	23.3	23.6	23.9	24.2	23.3	23.6	24.2
28	15.5	16.7	17.7	18.6	19.4	20.0	20.7	21.2	21.7	22.2	22.6	23.0	23.3	23.6	23.9	24.2	23.3	23.6	24.2
29	15.2	16.5	17.5	18.5	19.3	20.0	20.6	21.2	21.7	22.1	22.5	22.9	23.3	23.6	23.9	24.1	23.3	23.6	24.1
30	15.1	16.3	17.4	18.4	19.2	19.9	20.6	21.1	21.7	22.1	22.5	22.9	23.3	23.6	23.9	24.1	23.3	23.6	24.1
31	14.9	16.3	17.4	18.3	19.2	19.9	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.6	23.9	24.1	23.3	23.6	24.1
32	14.8	16.2	17.3	18.3	19.1	19.9	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.6	23.9	24.1	23.3	23.6	24.1
33	14.8	16.1	17.3	18.3	19.1	19.9	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.6	23.9	24.1	23.3	23.6	24.1
34	14.7	16.1	17.2	18.2	19.1	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.6	23.9	24.1	23.3	23.6	24.1
35	14.7	16.1	17.2	18.2	19.1	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.6	23.9	24.1	23.3	23.6	24.1
36	14.7	16.0	17.2	18.2	19.1	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.6	23.9	24.1	23.3	23.6	24.1
37	14.6	16.0	17.2	18.2	19.1	19.8	20.5	21.1	21.6	22.0	22.5	22.9	23.2	23.6	23.9	24.1	23.3	23.6	24.1
38	14.6	16.0	17.2	18.2	19.0	19.3	20.5	21.0	21.6	22.0	22.5	22.9	23.2	23.6	23.9	24.1	23.3	23.6	24.1

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.90

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.2	29.4	27.8	27.2
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	28.3	26.9	26.3	26.0	25.9	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.0	27.6	26.2	25.6	25.3	25.3	25.3	25.3	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	25.5	24.8	24.6	24.6	24.6	24.7	24.8	25.0	
20	0.0	0.0	0.0	0.0	0.0	31.5	25.2	24.1	23.8	23.8	23.9	24.0	24.2	24.4	24.6	24.8	
21	0.0	0.0	0.0	0.0	26.2	23.6	23.0	23.0	23.1	23.3	23.5	23.7	23.9	24.2	24.4	24.6	
22	0.0	0.0	0.0	23.8	22.2	22.0	22.1	22.3	22.6	22.9	23.2	23.5	23.8	24.0	24.3	24.5	
23	0.0	0.0	22.0	21.0	21.0	21.3	21.6	22.0	22.4	22.7	23.0	23.4	23.7	23.9	24.2	24.4	
24	0.0	20.4	19.7	20.0	20.4	20.8	21.3	21.8	22.2	22.6	22.9	23.3	23.6	23.9	24.1	24.4	
25	18.9	18.4	18.8	19.4	20.0	20.6	21.1	21.6	22.0	22.5	22.8	23.2	23.5	23.8	24.1	24.4	
26	16.3	17.6	18.3	19.1	19.8	20.4	21.0	21.5	22.0	22.4	22.8	23.1	23.5	23.8	24.1	24.3	
27	16.1	17.1	18.0	18.8	19.6	20.3	20.9	21.4	21.9	22.3	22.7	23.1	23.4	23.8	24.0	24.3	
28	15.6	16.8	17.8	18.7	19.5	20.2	20.8	21.3	21.8	22.3	22.7	23.1	23.4	23.7	24.0	24.3	
29	15.3	16.6	17.7	18.6	19.4	20.1	20.7	21.3	21.8	22.3	22.7	23.1	23.4	23.7	24.0	24.3	
30	15.2	16.5	17.6	18.5	19.3	20.1	20.7	21.3	21.8	22.2	22.7	23.0	23.4	23.7	24.0	24.3	
31	15.0	16.4	17.5	18.4	19.3	20.0	20.7	21.2	21.9	22.2	22.6	23.0	23.4	23.7	24.0	24.3	
32	14.9	16.3	17.4	18.4	19.2	20.0	20.6	21.2	21.7	22.2	22.6	23.0	23.4	23.7	24.0	24.3	
33	14.9	16.2	17.4	18.4	19.2	20.0	20.6	21.2	21.7	22.2	22.6	23.0	23.4	23.7	24.0	24.3	
34	14.8	16.2	17.3	18.3	19.2	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.4	23.7	24.0	24.2	
35	14.8	16.2	17.3	18.3	19.2	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.4	23.7	24.0	24.2	
36	14.7	16.1	17.3	18.3	19.2	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.3	23.7	24.0	24.2	
37	14.7	16.1	17.3	18.3	19.2	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.3	23.7	24.0	24.2	
38	14.7	16.1	17.3	18.3	19.2	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.3	23.7	24.0	24.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.91

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	19.5	18.7	19.0	19.6	20.2	20.7	21.2	21.7	22.2	22.6	23.0	23.3	23.7	24.0	24.2	24.5
26	17.2	17.7	18.5	19.2	19.9	20.5	21.1	21.6	22.1	22.5	22.9	23.3	23.6	23.9	24.1	24.3
27	16.3	17.2	18.1	19.0	19.7	20.4	21.0	21.5	22.0	22.5	22.9	23.2	23.6	23.9	24.2	24.4
28	15.8	16.9	17.9	18.8	19.6	20.3	20.9	21.5	22.0	22.4	22.8	23.2	23.6	23.9	24.2	24.4
29	15.5	16.7	17.8	18.7	19.5	20.2	20.9	21.4	21.9	22.4	22.8	23.2	23.5	23.9	24.1	24.4
30	15.3	16.6	17.7	18.6	19.4	20.2	20.8	21.4	21.9	22.4	22.8	23.2	23.5	23.8	24.1	24.4
31	15.1	16.5	17.6	18.6	19.4	20.1	20.8	21.4	21.9	22.3	22.8	23.2	23.5	23.8	24.1	24.4
32	15.0	16.4	17.5	18.5	19.4	20.1	20.8	21.3	21.9	22.3	22.8	23.1	23.5	23.8	24.1	24.4
33	15.0	16.3	17.5	18.5	19.3	20.1	20.7	21.3	21.9	22.3	22.7	23.1	23.5	23.8	24.1	24.4
34	14.9	16.3	17.5	18.4	19.3	20.1	20.7	21.3	21.8	22.3	22.7	23.1	23.5	23.8	24.1	24.4
35	14.9	16.3	17.4	18.4	19.3	20.0	20.7	21.3	21.8	22.3	22.7	23.1	23.5	23.8	24.1	24.4
36	14.8	16.2	17.4	18.4	19.3	20.0	20.7	21.3	21.8	22.3	22.7	23.1	23.5	23.8	24.1	24.4
37	14.8	16.2	17.4	18.4	19.3	20.0	20.7	21.3	21.8	22.3	22.7	23.1	23.5	23.8	24.1	24.4
38	14.8	16.2	17.4	18.4	19.3	20.0	20.7	21.3	21.8	22.3	22.7	23.1	23.5	23.8	24.1	24.4

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.92

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.8
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	28.8	27.8	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	27.7	26.9	26.6	26.4	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	27.0	26.2	25.8	25.7	25.7	25.7	
19	0.0	0.0	0.0	0.0	0.0	0.0	30.3	26.5	25.5	25.1	25.0	25.0	25.1	25.2	25.3		
20	0.0	0.0	0.0	0.0	0.0	26.5	24.8	24.4	24.2	24.3	24.4	24.5	24.7	24.9	25.1		
21	0.0	0.0	0.0	0.0	30.1	24.5	23.6	23.4	23.5	23.6	23.8	24.0	24.3	24.5	24.7	24.9	
22	0.0	0.0	0.0	25.9	23.0	22.5	22.5	22.7	23.0	23.2	23.5	23.8	24.1	24.3	24.6	24.8	
23	0.0	0.0	23.6	21.7	21.5	21.6	22.0	22.3	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.7	
24	0.0	21.9	20.3	20.4	20.7	21.2	21.6	22.0	22.5	22.8	23.2	23.5	23.9	24.1	24.4	24.7	
25	20.4	19.0	19.2	19.7	20.3	20.9	21.4	21.9	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.6	
26	17.5	17.9	18.6	19.4	20.0	20.7	21.2	21.7	22.2	22.7	23.0	23.4	23.7	24.1	24.3	24.6	
27	16.5	17.4	18.3	19.1	19.9	20.5	21.1	21.7	22.1	22.6	23.0	23.4	23.7	24.0	24.3	24.6	
28	15.9	17.1	18.1	18.9	19.7	20.4	21.0	21.6	22.1	22.6	23.0	23.3	23.7	24.0	24.3	24.6	
29	15.6	16.8	17.9	18.8	19.6	20.3	21.0	21.5	22.1	22.5	22.9	23.3	23.7	24.0	24.3	24.6	
30	15.4	16.7	17.8	18.7	19.6	20.3	20.9	21.5	22.0	22.5	22.9	23.3	23.6	24.0	24.3	24.5	
31	15.2	16.6	17.7	18.7	19.5	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.6	24.0	24.3	24.5	
32	15.1	16.5	17.6	18.6	19.5	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.6	24.0	24.3	24.5	
33	15.1	16.4	17.6	18.6	19.4	20.2	20.9	21.4	22.0	22.4	22.9	23.3	23.6	23.9	24.2	24.5	
34	15.0	16.4	17.6	18.6	19.4	20.2	20.9	21.4	22.0	22.4	22.9	23.3	23.6	23.9	24.2	24.5	
35	14.9	16.3	17.5	18.5	19.4	20.2	20.8	21.4	22.0	22.4	22.9	23.3	23.6	23.9	24.2	24.5	
36	14.9	16.3	17.5	18.5	19.4	20.1	20.8	21.4	21.9	22.4	22.9	23.2	23.6	23.9	24.2	24.5	
37	14.9	16.3	17.5	18.5	19.4	20.1	20.8	21.4	21.9	22.4	22.9	23.2	23.6	23.9	24.2	24.5	
38	14.9	16.3	17.5	18.5	19.4	20.1	20.8	21.4	21.9	22.4	22.9	23.2	23.6	23.9	24.2	24.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.93

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	29.3	28.2
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7	28.2	27.3	26.8	26.6	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	27.5	26.5	26.1	25.9	25.9	25.9	25.9	
19	0.0	0.0	0.0	0.0	0.0	0.0	32.7	27.0	25.8	25.4	25.2	25.2	25.3	25.3	25.4	25.5	
20	0.0	0.0	0.0	0.0	0.0	27.3	25.2	24.6	24.5	24.5	24.6	24.7	24.9	25.0	25.2		
21	0.0	0.0	0.0	0.0	36.5	25.0	23.9	23.6	23.7	23.9	24.0	24.2	24.4	24.6	24.8	25.1	
22	0.0	0.0	0.0	27.6	23.4	22.8	22.7	22.9	23.1	23.4	23.7	24.0	24.2	24.5	24.7	24.9	
23	0.0	0.0	24.8	22.0	21.7	21.9	22.1	22.5	22.8	23.2	23.5	23.8	24.1	24.4	24.6	24.9	
24	0.0	22.9	20.7	20.6	20.9	21.3	21.9	22.2	22.6	23.0	23.3	23.7	24.0	24.3	24.6	24.8	
25	21.5	19.3	19.4	19.9	20.5	21.0	21.5	22.0	22.5	22.9	23.3	23.6	23.9	24.2	24.5	24.8	
26	17.8	18.1	18.8	19.5	20.2	20.8	21.4	21.9	22.4	22.8	23.2	23.5	23.9	24.2	24.5	24.7	
27	16.7	17.5	18.4	19.2	20.0	20.6	21.2	21.8	22.3	22.7	23.1	23.5	23.8	24.2	24.4	24.7	
28	16.1	17.2	18.2	19.1	19.8	20.5	21.2	21.7	22.2	22.7	23.1	23.5	23.8	24.1	24.4	24.7	
29	15.7	17.0	18.0	18.9	19.7	20.5	21.1	21.7	22.2	22.6	23.1	23.4	23.8	24.1	24.4	24.7	
30	15.5	16.8	17.9	18.8	19.7	20.4	21.1	21.6	22.2	22.6	23.0	23.4	23.8	24.1	24.4	24.7	
31	15.3	16.7	17.8	18.8	19.6	20.4	21.0	21.6	22.1	22.6	23.0	23.4	23.8	24.1	24.4	24.7	
32	15.2	16.6	17.7	18.7	19.6	20.3	21.0	21.6	22.1	22.6	23.0	23.4	23.8	24.1	24.4	24.7	
33	15.1	16.5	17.7	18.7	19.6	20.3	21.0	21.6	22.1	22.6	23.0	23.4	23.7	24.1	24.4	24.7	
34	15.1	16.5	17.7	18.7	19.5	20.3	21.0	21.6	22.1	22.6	23.0	23.4	23.7	24.1	24.4	24.7	
35	15.0	16.4	17.6	18.6	19.5	20.3	20.9	21.5	22.1	22.6	23.0	23.4	23.7	24.1	24.4	24.6	
36	15.0	16.4	17.6	18.6	19.5	20.3	20.9	21.5	22.1	22.5	23.0	23.4	23.7	24.1	24.4	24.6	
37	15.0	16.4	17.6	18.6	19.5	20.3	20.9	21.5	22.1	22.5	23.0	23.4	23.7	24.1	24.4	24.6	
38	15.0	16.4	17.6	18.6	19.5	20.2	20.9	21.5	22.1	22.5	23.0	23.4	23.7	24.1	24.4	24.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY = 0.94

FOUR-HARNES WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	29.8	28.5	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	28.7	27.6	27.1	26.8	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	28.0	26.8	26.4	26.1	26.1	26.1	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3	27.6	26.2	25.6	25.4	25.4	25.4	25.5	25.6	
20	0.0	0.0	0.0	0.0	0.0	0.0	28.3	25.6	24.9	24.7	24.7	24.8	24.9	25.0	25.2	25.4	
21	0.0	0.0	0.0	0.0	0.0	25.7	24.2	23.9	23.9	24.0	24.2	24.4	24.6	24.8	25.0	25.2	
22	0.0	0.0	0.0	30.7	23.9	23.1	23.0	23.1	23.3	23.6	23.8	24.1	24.4	24.6	24.9	25.1	
23	0.0	0.0	26.5	27.4	22.0	22.0	22.3	22.6	23.0	23.3	23.6	23.9	24.2	24.5	24.8	25.0	
24	0.0	24.4	21.1	20.8	21.1	21.5	21.9	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.7	25.0	
25	23.1	19.6	19.7	20.1	20.6	21.2	21.7	22.1	22.6	23.0	23.4	23.7	24.1	24.4	24.6	24.9	
26	18.1	18.4	19.0	19.7	20.3	20.9	21.5	22.0	22.5	22.9	23.3	23.7	24.0	24.3	24.6	24.9	
27	16.9	17.7	18.6	19.4	20.1	20.8	21.4	21.9	22.4	22.9	23.3	23.6	24.0	24.3	24.6	24.9	
28	16.2	17.3	18.3	19.2	20.0	20.7	21.3	21.8	22.3	22.8	23.2	23.6	23.9	24.3	24.6	24.8	
29	15.9	17.1	18.1	19.1	19.9	20.6	21.2	21.8	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	
30	15.6	16.9	18.0	19.0	19.8	20.5	21.2	21.8	22.3	22.7	23.2	23.6	23.9	24.2	24.5	24.8	
31	15.4	16.8	17.9	18.9	19.7	20.5	21.1	21.7	22.2	22.7	23.2	23.5	23.9	24.2	24.5	24.8	
32	15.3	16.7	17.8	18.9	19.7	20.4	21.1	21.7	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	
33	15.2	16.6	17.8	18.8	19.7	20.4	21.1	21.7	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	
34	15.2	16.6	17.8	18.9	19.6	20.4	21.1	21.7	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	
35	15.1	16.5	17.7	18.7	19.6	20.4	21.1	21.7	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	
36	15.1	16.5	17.7	18.7	19.6	20.4	21.0	21.6	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	
37	15.1	16.5	17.7	18.7	19.6	20.4	21.0	21.6	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	
38	15.0	16.5	17.7	18.7	19.6	20.4	21.0	21.6	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.95

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	26.4	20.0	19.9	20.3	20.8	21.3	21.8	22.3	22.7	23.1	23.5	23.9	24.2	24.5	24.8	25.0	
26	18.5	19.6	19.2	19.8	20.5	21.1	21.6	22.1	22.6	23.0	23.4	23.8	24.1	24.5	24.7	25.0	
27	17.1	17.9	18.7	19.5	20.2	20.9	21.5	22.0	22.5	23.0	23.4	23.8	24.1	24.4	24.7	25.0	
28	16.4	17.5	18.4	19.3	20.1	20.8	21.4	22.0	22.5	22.9	23.3	23.7	24.1	24.4	24.7	25.0	
29	16.0	17.2	18.3	19.2	20.0	20.7	21.3	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	25.0	
30	15.7	17.0	18.1	19.1	19.9	20.6	21.3	21.9	22.4	22.9	23.3	23.7	24.0	24.4	24.7	24.9	
31	15.5	16.9	18.0	19.0	19.8	20.6	21.3	21.8	22.4	22.8	23.3	23.7	24.0	24.4	24.7	24.9	
32	15.4	16.8	17.9	18.9	19.8	20.6	21.2	21.8	22.4	22.9	23.3	23.7	24.0	24.3	24.6	24.9	
33	15.3	16.7	17.9	18.9	19.8	20.5	21.2	21.8	22.3	22.8	23.3	23.6	24.0	24.3	24.6	24.9	
34	15.3	16.7	17.9	18.9	19.7	20.5	21.2	21.9	22.3	22.8	23.2	23.6	24.0	24.3	24.6	24.9	
35	15.2	16.6	17.8	18.8	19.7	20.5	21.2	21.8	22.3	22.8	23.2	23.6	24.0	24.3	24.6	24.9	
36	15.2	16.6	17.8	18.8	19.7	20.5	21.2	21.8	22.3	22.8	23.2	23.6	24.0	24.3	24.6	24.9	
37	15.1	16.6	17.8	18.8	19.7	20.5	21.2	21.8	22.3	22.8	23.2	23.6	24.0	24.3	24.6	24.9	
38	15.1	16.6	17.8	18.8	19.7	20.5	21.1	21.8	22.3	22.8	23.2	23.6	24.0	24.3	24.6	24.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.96

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.97

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	30.6	28.8	28.0	27.6
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	28.0	27.2	26.9	26.7	26.7
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.2	27.4	26.5	26.1	26.0	26.0	26.1	26.2
20	0.0	0.0	0.0	0.0	0.0	0.0	35.7	27.2	25.9	25.4	25.3	25.3	25.4	25.5	25.7	25.9
21	0.0	0.0	0.0	0.0	0.0	28.4	25.4	24.7	24.5	24.6	24.7	24.9	25.0	25.3	25.5	25.7
22	0.0	0.0	0.0	0.0	25.8	24.0	23.7	23.7	23.8	24.1	24.3	24.6	24.8	25.1	25.3	25.5
23	0.0	0.0	0.0	23.9	22.8	22.7	22.9	23.1	23.4	23.8	24.1	24.4	24.7	24.9	25.2	25.4
24	0.0	0.0	22.4	21.6	21.7	22.0	22.4	22.6	23.2	23.6	23.9	24.2	24.5	24.8	25.1	25.4
25	0.0	20.9	20.4	20.7	21.1	21.6	22.1	22.6	23.0	23.4	23.8	24.1	24.5	24.8	25.1	25.3
26	19.5	19.1	19.5	20.1	20.7	21.3	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	25.0	25.3
27	17.5	18.2	19.0	19.8	20.5	21.2	21.8	22.3	22.8	23.2	23.6	24.0	24.4	24.7	25.0	25.3
28	16.7	17.7	18.7	19.6	20.3	21.0	21.7	22.2	22.7	23.2	23.6	24.0	24.3	24.7	25.0	25.2
29	14.3	17.4	18.5	19.4	20.2	20.9	21.6	22.2	22.7	23.1	23.6	24.0	24.3	24.6	24.9	25.2
30	16.0	17.2	18.3	19.3	20.1	20.9	21.5	22.1	22.6	23.1	23.5	23.9	24.3	24.6	24.9	25.2
31	15.8	17.1	18.2	19.2	20.1	20.8	21.5	22.1	22.6	23.1	23.5	23.9	24.3	24.6	24.9	25.2
32	15.6	17.0	18.2	19.2	20.0	20.8	21.5	22.1	22.6	23.1	23.5	23.9	24.3	24.6	24.9	25.2
33	15.5	16.9	18.1	19.1	20.0	20.8	21.4	22.0	22.6	23.1	23.5	23.9	24.3	24.6	24.9	25.2
34	15.4	16.9	18.1	19.1	20.0	20.7	21.4	22.0	22.6	23.0	23.5	23.9	24.3	24.6	24.9	25.2
35	15.4	16.8	18.0	19.0	19.9	20.7	21.4	22.0	22.6	23.0	23.5	23.9	24.2	24.6	24.9	25.2
36	15.3	16.8	18.0	19.0	19.9	20.7	21.4	22.0	22.5	23.0	23.5	23.9	24.2	24.6	24.9	25.2
37	15.3	16.8	18.0	19.0	19.9	20.7	21.4	22.0	22.5	23.0	23.5	23.9	24.2	24.6	24.9	25.2
38	15.3	16.7	18.0	19.0	19.9	20.7	21.4	22.0	22.5	23.0	23.5	23.9	24.2	24.6	24.9	25.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.98

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1	30.3
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	29.2	28.3	27.8	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	28.4	27.5	27.1	26.9	26.9		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	27.9	26.8	26.4	26.2	26.2	26.2	26.3	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	26.2	25.7	25.5	25.5	25.6	25.7	25.9	26.0	
21	0.0	0.0	0.0	0.0	0.0	29.9	25.8	25.0	24.7	24.7	24.9	25.0	25.2	25.4	25.6	25.8	
22	0.0	0.0	0.0	0.0	26.6	24.4	23.9	23.9	24.0	24.2	24.5	24.7	25.0	25.2	25.4	25.7	
23	0.0	0.0	0.0	24.6	23.1	22.9	23.0	23.3	23.6	23.9	24.2	24.5	24.8	25.1	25.3	25.6	
24	0.0	0.0	23.0	21.9	21.9	22.2	22.6	22.9	23.3	23.7	24.0	24.4	24.7	25.0	25.2	25.5	
25	0.0	21.5	20.7	20.9	21.3	21.8	22.2	22.7	23.1	23.5	23.9	24.3	24.6	24.9	25.2	25.5	
26	20.0	19.3	19.7	20.3	20.9	21.5	22.0	22.5	23.0	23.4	23.8	24.2	24.5	24.9	25.1	25.4	
27	17.8	18.4	19.2	19.9	20.6	21.3	21.9	22.4	22.9	23.4	23.8	24.2	24.5	24.8	25.1	25.4	
28	16.9	17.9	18.8	19.7	20.5	21.2	21.8	22.3	22.9	23.3	23.7	24.1	24.5	24.8	25.1	25.4	
29	16.4	17.6	18.6	19.5	20.3	21.1	21.7	22.3	22.8	23.3	23.7	24.1	24.4	24.8	25.1	25.3	
30	16.1	17.4	18.5	19.4	20.3	21.0	21.6	22.2	22.8	23.2	23.7	24.1	24.4	24.8	25.1	25.3	
31	15.9	17.2	18.3	19.3	20.2	20.9	21.6	22.2	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	
32	15.7	17.1	18.3	19.3	20.1	20.9	21.6	22.2	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	
33	15.6	17.0	18.2	19.2	20.1	20.9	21.5	22.2	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	
34	15.5	17.0	18.2	19.2	20.1	20.9	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	
35	15.5	16.9	18.1	19.2	20.0	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	
36	15.4	16.9	18.1	19.1	20.0	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	
37	15.4	16.8	18.1	19.1	20.0	20.8	21.5	22.1	22.7	23.1	23.6	24.0	24.4	24.7	25.0	25.3	
38	15.4	16.8	18.1	19.1	20.0	20.8	21.5	22.1	22.6	23.1	23.6	24.0	24.4	24.7	25.0	25.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.99

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	22.2	20.9	21.1	21.5	21.9	22.4	22.8	23.3	23.7	24.1	24.4	24.7	25.0	25.3	25.6	
26	20.8	19.6	19.9	20.4	21.0	21.6	22.2	22.7	23.1	23.6	24.0	24.3	24.7	25.0	25.3	25.6	
27	18.1	18.6	19.3	20.1	20.8	21.4	22.0	22.6	23.0	23.5	23.9	24.3	24.6	25.0	25.2	25.5	
28	17.1	18.0	19.0	19.8	20.6	21.3	21.9	22.5	23.0	23.4	23.9	24.2	24.6	24.9	25.2	25.5	
29	16.5	17.7	18.7	19.7	20.5	21.2	21.8	22.4	22.9	23.4	23.8	24.2	24.6	24.9	25.2	25.5	
30	16.2	17.5	18.6	19.5	20.4	21.1	21.8	22.4	22.9	23.4	23.8	24.2	24.5	24.9	25.2	25.5	
31	16.0	17.3	18.5	19.4	20.3	21.1	21.7	22.3	22.8	23.3	23.8	24.2	24.5	24.9	25.2	25.5	
32	15.8	17.2	18.4	19.4	20.2	21.0	21.7	22.3	22.8	23.3	23.8	24.2	24.5	24.9	25.2	25.4	
33	15.7	17.1	18.3	19.3	20.2	21.0	21.7	22.3	22.8	23.3	23.7	24.1	24.5	24.8	25.2	25.4	
34	15.6	17.1	18.3	19.3	20.2	21.0	21.6	22.3	22.8	23.3	23.7	24.1	24.5	24.8	25.2	25.4	
35	15.6	17.0	18.2	19.3	20.1	20.9	21.6	22.2	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	
36	15.5	17.0	18.2	19.2	20.1	20.9	21.6	22.2	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	
37	15.5	16.9	18.2	19.2	20.1	20.9	21.6	22.2	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	
38	15.5	16.9	18.1	19.2	20.1	20.9	21.6	22.2	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =1.00
FOUR-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.36

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.2	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2	37.5	35.1	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3	34.5	33.4	32.8	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.9	34.3	32.8	32.2	31.9	31.8		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	32.5	31.6	31.3	31.1	31.1	31.2		
23	0.0	0.0	0.0	0.0	0.0	0.0	33.9	32.6	31.2	30.6	30.5	30.5	30.5	30.6	30.6	30.8	
24	0.0	0.0	0.0	0.0	0.0	34.7	31.0	30.1	29.8	29.7	29.8	30.0	30.1	30.3	30.3	30.5	
25	0.0	0.0	0.0	0.0	0.0	32.4	29.7	29.1	28.9	29.0	29.2	29.4	29.6	29.9	30.1	30.4	
26	0.0	0.0	0.0	0.0	30.8	28.6	28.1	28.1	28.3	28.5	28.8	29.1	29.4	29.7	30.0	30.2	
27	0.0	0.0	0.0	29.5	27.4	27.1	27.2	27.5	27.8	28.2	28.5	28.9	29.2	29.5	29.8	30.1	
28	0.0	0.0	28.5	26.3	26.1	26.3	26.7	27.1	27.5	28.0	28.4	28.7	29.1	29.4	29.8	30.1	
29	0.0	27.9	25.1	24.9	25.3	25.8	26.3	26.8	27.3	27.8	28.2	28.6	29.0	29.4	29.7	30.0	
30	29.1	23.8	23.7	24.2	24.8	25.5	26.1	26.7	27.2	27.7	28.1	28.6	28.9	29.3	29.6	30.0	
31	22.4	22.3	23.0	23.7	24.5	25.2	25.9	26.5	27.1	27.6	28.1	28.5	28.9	29.3	29.6	29.9	
32	20.7	21.6	22.5	23.4	24.3	25.1	25.8	26.4	27.0	27.5	28.0	28.4	28.9	29.2	29.6	29.9	
33	19.9	21.1	22.2	23.2	24.1	24.9	25.7	26.3	26.9	27.5	28.0	28.4	28.8	29.2	29.6	29.9	
34	19.4	20.7	22.0	23.0	24.0	24.8	25.6	26.3	26.9	27.4	27.9	28.4	28.8	29.2	29.5	29.9	
35	19.0	20.5	21.8	22.9	23.9	24.8	25.5	26.2	26.8	27.4	27.9	28.4	28.8	29.2	29.5	29.9	
36	18.8	20.3	21.7	22.8	23.8	24.7	25.5	26.2	26.8	27.4	27.9	28.3	28.8	29.1	29.5	29.8	
37	18.6	20.2	21.6	22.7	23.8	24.6	25.4	26.1	26.8	27.3	27.9	28.3	28.7	29.1	29.5	29.8	
38	18.5	20.1	21.5	22.7	23.7	24.6	25.4	26.1	26.7	27.3	27.8	28.3	28.7	29.1	29.5	29.8	
39	18.4	20.0	21.4	22.6	23.7	24.6	25.4	26.1	26.7	27.3	27.8	28.3	28.7	29.1	29.5	29.8	
40	18.3	20.0	21.4	22.6	23.6	24.6	25.4	26.1	26.7	27.3	27.8	28.3	28.7	29.1	29.5	29.8	
41	18.2	19.9	21.4	22.6	23.6	24.5	25.3	26.1	26.7	27.3	27.8	28.3	28.7	29.1	29.5	29.8	
42	18.2	19.9	21.3	22.5	23.6	24.5	25.3	26.1	26.7	27.3	27.8	28.3	28.7	29.1	29.5	29.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.48

FOUR-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	32.5	26.7	26.3	26.6	27.0	27.5	28.1	28.6	29.0	29.5	29.9	30.3	30.7	31.0	31.3
31	0.0	25.5	25.0	25.4	26.0	26.7	27.3	27.9	28.4	28.9	29.4	29.8	30.2	30.6	30.9	31.3
32	24.4	23.7	24.2	24.9	25.7	26.4	27.1	27.7	28.3	28.8	29.3	29.7	30.2	30.5	30.9	31.2
33	22.1	22.7	23.6	24.5	25.4	26.2	26.9	27.6	28.2	28.7	29.2	29.7	30.1	30.5	30.9	31.2
34	21.1	22.2	23.3	24.3	25.2	26.1	26.8	27.5	28.1	28.7	29.2	29.6	30.1	30.5	30.8	31.2
35	20.4	21.8	23.0	24.1	25.1	25.9	26.7	27.4	28.1	28.6	29.1	29.6	30.1	30.5	30.8	31.2
36	20.0	21.5	22.8	24.0	25.0	25.9	26.7	27.4	28.0	28.6	29.1	29.6	30.0	30.4	30.8	31.1
37	19.7	21.3	22.7	23.8	24.9	25.8	26.6	27.3	28.0	28.6	29.1	29.6	30.0	30.4	30.8	31.1
38	19.5	21.2	22.6	23.8	24.8	25.7	26.6	27.3	27.9	28.5	29.1	29.6	30.0	30.4	30.8	31.1
39	19.4	21.0	22.5	23.7	24.8	25.7	26.5	27.3	27.9	28.5	29.0	29.5	30.0	30.4	30.8	31.1
40	19.2	21.0	22.4	23.6	24.7	25.7	26.5	27.2	27.9	28.5	29.0	29.5	30.0	30.4	30.8	31.1
41	19.2	20.9	22.3	23.6	24.7	25.6	26.5	27.2	27.9	28.5	29.0	29.5	30.0	30.4	30.8	31.1
42	19.1	20.8	22.3	23.6	24.7	25.6	26.5	27.2	27.9	28.5	29.0	29.5	30.0	30.4	30.8	31.1

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.50

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.7	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.7	39.0	36.7	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.3	36.3	35.1	34.5	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.9	36.2	34.6	33.9	33.6	33.4	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2	34.4	33.4	33.0	32.8	32.8	32.8	
24	0.0	0.0	0.0	0.0	0.0	0.0	48.5	34.9	33.1	32.4	32.1	32.1	32.1	32.2	32.2	32.4	
25	0.0	0.0	0.0	0.0	0.0	0.0	39.6	33.3	31.9	31.5	31.4	31.4	31.5	31.7	31.9	32.1	
26	0.0	0.0	0.0	0.0	0.0	36.7	31.9	30.9	30.6	30.6	30.7	30.9	31.2	31.4	31.7	31.9	
27	0.0	0.0	0.0	0.0	55.0	30.7	29.9	29.7	29.8	30.1	30.3	30.6	30.9	31.2	31.5	31.8	
28	0.0	0.0	0.0	34.2	29.6	28.9	28.8	29.0	29.4	29.7	30.1	30.4	30.7	31.1	31.4	31.7	
29	0.0	0.0	34.5	28.5	27.8	27.9	28.2	28.6	29.0	29.5	29.9	30.2	30.6	31.0	31.3	31.6	
30	0.0	44.7	27.4	26.7	26.9	27.3	27.8	28.3	28.8	29.3	29.7	30.1	30.5	30.9	31.2	31.5	
31	0.0	26.3	25.5	25.8	26.3	26.9	27.5	28.1	28.6	29.1	29.6	30.0	30.4	30.8	31.2	31.5	
32	25.6	24.1	24.5	25.2	25.9	26.6	27.3	27.9	28.5	29.0	29.5	30.0	30.4	30.8	31.1	31.4	
33	22.6	23.1	23.9	24.8	25.6	26.4	27.1	27.8	28.4	28.9	29.4	29.9	30.3	30.7	31.1	31.4	
34	21.4	22.4	23.5	24.5	25.4	26.3	27.0	27.7	28.3	28.9	29.4	29.9	30.3	30.7	31.1	31.4	
35	20.7	22.0	23.2	24.3	25.3	26.1	26.9	27.6	28.3	28.8	29.3	29.8	30.3	30.7	31.0	31.4	
36	20.2	21.7	23.0	24.2	25.2	26.1	26.8	27.6	28.2	28.8	29.3	29.8	30.2	30.6	31.0	31.4	
37	19.9	21.5	22.9	24.0	25.1	26.0	26.8	27.5	28.2	28.8	29.3	29.8	30.2	30.6	31.0	31.3	
38	19.7	21.3	22.7	23.9	25.0	25.9	26.7	27.5	28.1	28.7	29.3	29.8	30.2	30.6	31.0	31.3	
39	19.5	21.2	22.6	23.9	24.9	25.9	26.7	27.4	28.1	28.7	29.2	29.7	30.2	30.6	31.0	31.3	
40	19.4	21.1	22.6	23.8	24.9	25.8	26.7	27.4	28.1	28.7	29.2	29.7	30.2	30.6	31.0	31.3	
41	19.3	21.0	22.5	23.8	24.9	25.8	26.7	27.4	28.1	28.7	29.2	29.7	30.2	30.6	31.0	31.3	
42	19.2	21.0	22.5	23.7	24.8	25.8	26.6	27.4	28.1	28.7	29.2	29.7	30.2	30.6	31.0	31.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.77

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.00

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.7
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8	42.7
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.6	43.0	41.1	40.2
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.4	41.1	39.9	39.2	38.9
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3	42.0	39.7	38.8	38.4	38.2	38.2	38.2
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.8	40.4	38.6	37.9	37.6	37.5	37.6	37.7
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.9	39.1	37.6	37.0	36.9	36.9	37.0	37.1	37.3
29	0.0	0.0	0.0	0.0	0.0	0.0	43.4	37.9	36.6	36.2	36.1	36.2	36.4	36.6	36.8	37.1
30	0.0	0.0	0.0	0.0	0.0	42.7	36.9	35.7	35.3	35.4	35.5	35.7	36.0	36.3	36.6	36.9
31	0.0	0.0	0.0	0.0	43.4	36.0	34.7	34.5	34.6	34.8	35.1	35.4	35.8	36.1	36.4	36.7
32	0.0	0.0	0.0	50.3	35.2	33.8	33.6	33.7	34.0	34.4	34.8	35.2	35.6	35.9	36.3	36.6
33	0.0	0.0	0.0	34.5	32.8	32.5	32.8	33.2	33.7	34.1	34.6	35.0	35.4	35.8	36.2	36.5
34	0.0	0.0	34.3	31.8	31.6	31.9	32.3	32.9	33.4	33.9	34.4	34.9	35.3	35.7	36.1	36.4
35	0.0	35.7	30.7	30.4	30.8	31.4	32.0	32.6	33.2	33.7	34.3	34.7	35.2	35.6	36.0	36.4
36	0.0	29.8	29.2	29.6	30.3	31.0	31.7	32.4	33.0	33.6	34.2	34.7	35.1	35.6	36.0	36.3
37	29.0	27.8	28.2	29.0	29.9	30.7	31.5	32.2	32.9	33.5	34.1	34.6	35.1	35.5	35.9	36.3
38	26.3	26.7	27.6	28.7	29.6	30.5	31.3	32.1	32.8	33.4	34.0	34.5	35.0	35.5	35.9	36.3
39	24.9	26.0	27.2	28.4	29.4	30.4	31.2	32.0	32.7	33.4	33.9	34.5	35.0	35.4	35.9	36.3
40	24.1	25.6	26.9	28.1	29.2	30.2	31.1	31.9	32.6	33.3	33.9	34.5	35.0	35.4	35.8	36.2
41	23.6	25.2	26.7	28.0	29.1	30.1	31.0	31.9	32.6	33.3	33.9	34.4	34.9	35.4	35.8	36.2
42	23.2	25.0	26.5	27.8	29.0	30.0	31.0	31.8	32.5	33.2	33.8	34.4	34.9	35.4	35.8	36.2
43	22.9	24.8	26.4	27.7	28.9	30.0	30.9	31.8	32.5	33.2	33.8	34.4	34.9	35.4	35.8	36.2
44	22.7	24.6	26.2	27.6	28.9	29.9	30.9	31.7	32.5	33.2	33.8	34.4	34.9	35.3	35.8	36.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =2.36

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.7	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.6	46.4	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3	47.0	44.8	43.8	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8	45.3	43.6	42.8	42.5	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.3	43.9	42.6	42.0	41.7	41.6	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.6	42.7	41.6	41.2	41.0	41.0	41.1	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.3	41.7	40.8	40.4	40.3	40.4	40.5	40.7	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.3	40.8	39.9	39.6	39.6	39.7	39.9	40.1	40.4	
32	0.0	0.0	0.0	0.0	0.0	0.0	42.6	39.9	39.1	38.8	38.9	39.1	39.3	39.6	39.9	40.2	
33	0.0	0.0	0.0	0.0	0.0	42.2	39.0	38.2	38.0	38.1	38.4	38.7	39.0	39.3	39.7	40.0	
34	0.0	0.0	0.0	0.0	42.5	38.2	37.3	37.2	37.4	37.7	38.0	38.4	38.8	39.1	39.5	39.8	
35	0.0	0.0	0.0	44.8	37.4	36.4	36.3	36.5	36.9	37.3	37.7	38.2	38.6	39.0	39.4	39.7	
36	0.0	0.0	0.0	36.9	35.4	35.3	35.6	36.0	36.5	37.0	37.5	38.0	38.4	38.9	39.3	39.7	
37	0.0	0.0	36.8	34.4	34.2	34.6	35.1	35.7	36.3	36.8	37.4	37.9	38.3	38.8	39.2	39.6	
38	0.0	39.0	33.4	33.1	33.5	34.1	34.7	35.4	36.0	36.7	37.2	37.7	38.2	38.7	39.1	39.5	
39	0.0	32.6	31.8	32.2	32.9	33.7	34.5	35.2	35.9	36.5	37.1	37.7	38.2	38.6	39.1	39.5	
40	32.9	30.5	30.8	31.6	32.5	33.4	34.3	35.0	35.8	36.4	37.0	37.6	38.1	38.6	39.0	39.5	
41	29.1	29.3	30.2	31.2	32.2	33.2	34.1	34.9	35.6	36.3	37.0	37.5	38.1	38.5	39.0	39.4	
42	27.5	28.5	29.7	30.9	32.0	33.0	34.0	34.8	35.6	36.3	36.9	37.5	38.0	38.5	39.0	39.4	
43	26.5	28.0	29.4	30.7	31.8	32.9	33.8	34.7	35.5	36.2	36.8	37.4	38.0	38.5	38.9	39.4	
44	25.9	27.6	29.1	30.5	31.7	32.8	33.8	34.6	35.4	36.2	36.8	37.4	38.0	38.5	38.9	39.4	
45	25.4	27.3	28.9	30.3	31.6	32.7	33.7	34.6	35.4	36.1	36.8	37.4	37.9	38.4	38.9	39.3	
46	25.1	27.0	28.7	30.2	31.5	32.6	33.6	34.5	35.3	36.1	36.7	37.4	37.9	38.4	38.9	39.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.50

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9	49.2	46.8
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.9	47.3	45.5	44.7
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.2	45.8	44.5	43.8	43.5
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.6	47.4	44.6	43.5	43.0	42.8	42.7
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.7	46.1	43.6	42.6	42.2	42.1	42.1	42.2
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.0	45.0	42.6	41.8	41.5	41.4	41.5	41.6	41.8
32	0.0	0.0	0.0	0.0	0.0	0.0	78.2	44.1	41.7	40.9	40.7	40.7	40.8	41.0	41.3	41.5
33	0.0	0.0	0.0	0.0	0.0	0.0	43.5	40.9	40.1	39.9	40.0	40.2	40.4	40.7	41.0	41.3
34	0.0	0.0	0.0	0.0	0.0	43.2	40.1	39.3	39.1	39.2	39.5	39.8	40.1	40.5	40.8	41.1
35	0.0	0.0	0.0	0.0	43.7	39.3	38.4	38.3	38.4	38.8	39.1	39.5	39.9	40.3	40.7	41.0
36	0.0	0.0	0.0	46.6	38.6	37.5	37.3	37.6	38.0	38.4	38.8	39.3	39.7	40.1	40.5	40.9
37	0.0	0.0	0.0	38.1	36.5	36.4	36.7	37.1	37.6	38.1	38.6	39.1	39.6	40.0	40.4	40.8
38	0.0	0.0	38.4	35.5	35.3	35.6	36.2	36.7	37.3	37.9	38.5	39.0	39.5	39.9	40.4	40.8
39	0.0	42.1	34.6	34.1	34.5	35.1	35.8	36.5	37.1	37.7	38.3	38.9	39.4	39.8	40.3	40.7
40	0.0	34.1	32.9	33.3	34.0	34.7	35.5	36.3	37.0	37.6	38.2	38.8	39.3	39.8	40.2	40.6
41	35.1	31.6	31.9	32.7	33.5	34.4	35.3	36.1	36.8	37.5	38.1	38.7	39.2	39.7	40.2	40.6
42	30.5	30.3	31.2	32.2	33.2	34.2	35.1	35.9	36.7	37.4	38.0	38.6	39.2	39.7	40.1	40.6
43	28.6	29.5	30.7	31.9	33.0	34.0	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.1	40.6
44	27.5	28.9	30.3	31.6	32.8	33.9	34.9	35.7	36.5	37.3	37.9	38.5	39.1	39.6	40.1	40.5
45	26.8	28.5	30.0	31.4	32.7	33.8	34.8	35.7	36.5	37.2	37.9	38.5	39.1	39.6	40.1	40.5
46	26.3	28.2	29.8	31.2	32.5	33.7	34.7	35.6	36.4	37.2	37.9	38.5	39.0	39.6	40.1	40.5

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =2.75

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.4	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	50.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.5	51.1	48.6	47.4	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.8	49.5	47.4	46.5	46.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.3	48.1	46.4	45.6	45.2	45.1	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.8	47.0	45.5	44.8	44.5	44.4	44.5	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8	46.1	44.6	44.0	43.8	43.8	43.9	44.0	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.4	45.2	43.8	43.2	43.1	43.1	43.3	43.5	43.7	
34	0.0	0.0	0.0	0.0	0.0	0.0	50.9	44.5	42.9	42.4	42.3	42.4	42.6	42.9	43.2	43.5	
35	0.0	0.0	0.0	0.0	0.0	53.8	43.9	42.1	41.6	41.6	41.7	42.0	42.3	42.6	42.9	43.3	
36	0.0	0.0	0.0	0.0	0.0	43.5	41.3	40.8	40.8	41.0	41.3	41.6	42.0	42.4	42.7	43.1	
37	0.0	0.0	0.0	0.0	43.6	40.5	39.9	39.9	40.2	40.5	40.9	41.4	41.8	42.2	42.6	43.0	
38	0.0	0.0	0.0	45.2	39.8	39.0	39.0	39.3	39.7	40.2	40.7	41.2	41.6	42.1	42.5	42.9	
39	0.0	0.0	60.7	39.3	38.0	38.0	38.3	38.8	39.4	39.9	40.5	41.0	41.5	41.9	42.4	42.8	
40	0.0	0.0	39.4	37.0	36.9	37.3	37.9	38.5	39.1	39.7	40.3	40.9	41.4	41.9	42.3	42.7	
41	0.0	42.4	36.1	35.7	36.1	36.8	37.5	38.2	38.9	39.6	40.2	40.7	41.3	41.8	42.2	42.7	
42	0.0	35.6	34.5	34.9	35.6	36.4	37.2	38.0	38.7	39.4	40.1	40.7	41.2	41.7	42.2	42.6	
43	36.9	33.2	33.4	34.2	35.2	36.1	37.0	37.8	38.6	39.3	40.0	40.6	41.1	41.7	42.1	42.6	
44	32.1	31.8	32.7	33.8	34.9	35.9	36.8	37.7	38.5	39.2	39.9	40.5	41.1	41.6	42.1	42.6	
45	30.1	31.0	32.2	33.5	34.6	35.7	36.7	37.6	38.4	39.2	39.8	40.5	41.1	41.6	42.1	42.5	
46	29.0	30.4	31.5	33.2	34.4	35.6	36.6	37.5	38.3	39.1	39.8	40.4	41.0	41.6	42.0	42.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.95

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.4
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.2	55.1	51.7
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.6	53.0	50.3	49.1
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.4	51.4	49.2	48.2	47.7
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.2	50.2	48.2	47.3	46.9	46.8
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.9	49.1	47.3	46.5	46.2	46.1	46.1
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3	48.2	46.5	45.8	45.5	45.4	45.5	45.7
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.7	47.5	45.6	45.0	44.8	44.8	44.9	45.1	45.3
35	0.0	0.0	0.0	0.0	0.0	0.0	57.2	46.9	44.9	44.2	44.0	44.1	44.3	44.5	44.8	45.1
36	0.0	0.0	0.0	0.0	0.0	0.0	46.5	44.1	43.4	43.3	43.4	43.6	43.9	44.2	44.5	44.8
37	0.0	0.0	0.0	0.0	0.0	46.5	43.4	42.6	42.4	42.6	42.9	43.2	43.6	44.0	44.3	44.7
38	0.0	0.0	0.0	0.0	47.6	42.7	41.7	41.6	41.8	42.1	42.5	42.9	43.3	43.8	44.2	44.6
39	0.0	0.0	0.0	53.5	42.2	40.8	40.7	40.9	41.3	41.7	42.2	42.7	43.2	43.6	44.0	44.4
40	0.0	0.0	0.0	42.2	40.0	39.7	39.9	40.4	40.8	41.5	42.0	42.5	43.0	43.5	43.9	44.4
41	0.0	0.0	43.8	39.2	38.6	38.9	39.4	40.0	40.6	41.2	41.8	42.4	42.9	43.4	43.9	44.3
42	0.0	0.0	38.6	37.5	37.7	38.3	39.0	39.7	40.4	41.1	41.7	42.3	42.8	43.3	43.8	44.2
43	0.0	39.1	36.4	36.5	37.1	37.9	38.7	39.5	40.2	40.9	41.6	42.2	42.7	43.2	43.7	44.2
44	49.1	35.4	35.1	35.8	36.6	37.6	38.4	39.3	40.1	40.8	41.5	42.1	42.6	43.2	43.7	44.1
45	35.2	33.7	34.3	35.2	36.3	37.3	38.3	39.1	39.9	40.7	41.4	42.0	42.6	43.1	43.6	44.1
46	32.2	32.6	33.7	34.8	36.0	37.1	38.1	39.0	39.8	40.6	41.3	41.9	42.5	43.1	43.6	44.1
47	30.7	31.8	33.2	34.5	35.8	36.9	38.0	38.9	39.8	40.5	41.2	41.9	42.5	43.1	43.6	44.0
48	29.7	31.3	32.8	34.3	35.6	36.8	37.9	38.8	39.7	40.5	41.2	41.9	42.5	43.0	43.5	44.0
49	29.1	30.9	32.6	34.1	35.5	36.7	37.8	38.7	39.6	40.4	41.2	41.8	42.4	43.0	43.5	44.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =3.25
FOUR-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.8
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.2	55.9
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.0	54.3	52.4
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0	53.1	51.5	50.6
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5	52.0	50.6	49.9	49.5
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5	51.1	49.7	49.1	48.8	48.8
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.8	50.2	48.9	48.4	48.1	48.1	48.2
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.4	49.5	48.1	47.6	47.5	47.5	47.6	47.8
36	0.0	0.0	0.0	0.0	0.0	0.0	54.8	48.3	48.8	47.4	46.9	46.7	46.8	47.0	47.2	47.5
37	0.0	0.0	0.0	0.0	0.0	60.1	47.9	45.9	45.3	45.2	45.4	45.7	46.3	46.6	46.9	47.1
38	0.0	0.0	0.0	0.0	0.0	47.9	45.2	44.5	44.4	44.6	44.9	45.3	46.0	46.3	46.7	47.0
39	0.0	0.0	0.0	0.0	49.0	44.6	43.6	43.5	43.8	44.1	44.6	45.0	45.5	46.1	46.5	46.9
40	0.0	0.0	0.0	0.0	44.3	44.1	42.8	42.9	43.3	43.8	44.3	44.8	45.3	45.9	46.3	46.8
41	0.0	0.0	0.0	54.3	44.1	42.8	42.6	42.9	43.3	43.8	44.3	44.8	45.3	45.8	46.2	46.6
42	0.0	0.0	0.0	44.3	41.9	41.6	41.9	42.4	42.9	43.5	44.1	44.6	45.1	45.6	46.1	46.6
43	0.0	0.0	46.3	41.2	40.6	40.8	41.4	42.0	42.6	43.3	43.9	44.5	45.0	45.5	46.0	46.5
44	0.0	0.0	40.8	39.5	39.7	40.3	41.0	41.7	42.4	43.1	43.8	44.4	44.9	45.5	46.0	46.4
45	0.0	41.8	38.4	38.4	39.0	39.8	40.6	41.5	42.2	43.0	43.6	44.3	44.8	45.4	45.9	46.4
46	0.0	37.6	37.0	37.7	38.5	39.0	40.4	41.3	42.1	42.8	43.5	44.2	44.8	45.3	45.8	46.3
47	38.2	35.7	36.1	37.1	38.2	39.2	40.2	41.1	41.9	42.7	43.4	44.1	44.7	45.3	45.9	46.3
48	34.5	34.4	35.5	36.7	37.9	39.0	40.0	41.0	41.8	42.6	43.4	44.0	44.7	45.2	45.9	46.3
49	32.6	33.6	35.0	36.3	37.6	38.9	39.9	40.9	41.8	42.6	43.3	44.0	44.6	45.2	45.7	46.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.54

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.8	59.9
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.3	58.2	55.5
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.5	56.8	54.5	53.4	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.9	55.7	53.6	52.6	52.1	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.0	54.8	52.7	51.8	51.4	51.2	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.8	54.0	51.9	51.1	50.7	50.5	50.6	
36	0.0	0.0	0.0	0.0	0.0	0.0	61.9	53.4	51.2	50.3	50.0	49.9	49.9	49.9	50.1	
37	0.0	0.0	0.0	0.0	0.0	0.0	66.1	53.0	50.5	49.6	49.2	49.2	49.3	49.5	49.7	
38	0.0	0.0	0.0	0.0	0.0	0.0	52.9	49.8	48.8	48.5	48.5	48.6	48.9	49.1	49.4	
39	0.0	0.0	0.0	0.0	0.0	53.4	49.3	48.1	47.7	47.8	47.9	48.2	48.5	48.9	49.2	
40	0.0	0.0	0.0	0.0	0.0	55.6	48.8	47.3	46.9	47.0	47.2	47.5	47.9	48.3	48.7	49.0
41	0.0	0.0	0.0	0.0	68.1	48.7	46.6	46.1	46.1	46.4	46.8	47.2	47.6	48.1	48.5	48.9
42	0.0	0.0	0.0	0.0	49.4	46.0	45.2	45.3	45.6	46.0	46.4	46.9	47.4	47.9	48.3	48.8
43	0.0	0.0	0.0	52.7	45.5	44.4	44.3	44.6	45.1	45.6	46.2	46.7	47.2	47.7	48.2	48.7
44	0.0	0.0	0.0	45.5	43.5	43.3	43.6	44.2	44.8	45.4	46.0	46.5	47.1	47.6	48.1	48.6
45	0.0	0.0	47.2	42.7	42.2	42.5	43.1	43.8	44.5	45.1	45.8	46.4	47.0	47.5	48.0	48.5
46	0.0	0.0	42.3	41.1	41.3	42.0	42.7	43.5	44.3	45.0	45.6	46.3	46.9	47.4	48.0	48.4
47	0.0	43.4	40.0	40.1	40.7	41.5	42.4	43.3	44.1	44.8	45.5	46.2	46.8	47.4	47.9	48.4
48	0.0	39.3	38.7	39.3	40.2	41.2	42.2	43.1	43.9	44.7	45.4	46.1	46.7	47.3	47.9	48.4
49	40.2	37.3	37.7	38.7	39.8	40.9	42.0	42.9	43.8	44.6	45.3	46.0	46.7	47.3	47.8	48.3
50	36.2	36.0	37.1	38.3	39.5	40.7	41.8	42.8	43.7	44.5	45.3	46.0	46.6	47.2	47.8	48.3
51	34.3	35.2	36.6	38.0	39.3	40.5	41.6	42.7	43.6	44.4	45.2	45.9	46.6	47.2	47.7	48.3
52	33.1	34.6	36.2	37.7	39.1	40.4	41.5	42.6	43.5	44.4	45.2	45.9	46.5	47.1	47.7	48.2
53	32.3	34.1	35.9	37.5	38.9	40.2	41.4	42.5	43.4	44.3	45.1	45.8	46.5	47.1	47.7	48.2
54	31.7	33.7	35.6	37.3	38.8	40.1	41.3	42.4	43.4	44.3	45.1	45.8	46.5	47.1	47.7	48.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.75

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.8
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.9	60.9
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4	59.4	56.9
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4	58.2	55.9	54.8
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.2	57.2	55.1	54.1	53.6	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.7	56.4	54.3	53.3	52.9	52.7	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	55.7	53.5	52.6	52.2	52.0	52.0	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.8	55.2	52.8	51.8	51.5	51.4	51.4	51.6	
38	0.0	0.0	0.0	0.0	0.0	0.0	72.2	54.9	52.1	51.1	50.8	50.7	50.8	51.0	51.2	
39	0.0	0.0	0.0	0.0	0.0	0.0	55.1	51.6	50.4	50.0	50.0	50.1	50.3	50.6	50.9	
40	0.0	0.0	0.0	0.0	0.0	56.1	51.1	49.7	49.3	49.2	49.4	49.7	50.0	50.3	50.7	
41	0.0	0.0	0.0	0.0	0.0	59.9	50.8	49.0	48.5	48.5	48.7	49.0	49.3	49.7	50.1	50.5
42	0.0	0.0	0.0	0.0	0.0	51.0	48.3	47.7	47.6	47.9	48.2	48.6	49.1	49.5	49.9	50.3
43	0.0	0.0	0.0	0.0	52.3	47.8	46.8	46.8	47.0	47.4	47.9	48.4	48.8	49.3	49.8	50.2
44	0.0	0.0	0.0	59.4	47.5	46.0	45.8	46.1	46.5	47.1	47.6	48.1	48.7	49.2	49.7	50.1
45	0.0	0.0	0.0	48.1	45.2	44.8	45.1	45.6	46.2	46.8	47.4	48.0	48.5	49.0	49.5	50.0
46	0.0	0.0	52.0	44.7	43.8	44.0	44.5	45.2	45.9	46.5	47.2	47.8	48.4	48.9	49.5	49.9
47	0.0	0.0	44.8	42.8	42.8	43.4	44.1	44.9	45.6	46.3	47.0	47.7	48.3	48.9	49.4	49.9
48	0.0	47.9	41.9	41.6	42.1	42.9	43.8	44.6	45.4	46.2	46.9	47.6	48.2	48.8	49.3	49.8
49	0.0	41.7	40.3	40.7	41.6	42.5	43.5	44.4	45.3	46.1	46.8	47.5	48.1	48.7	49.3	49.8
50	45.3	39.1	39.2	40.1	41.2	42.2	43.3	44.2	45.1	45.9	46.7	47.4	48.1	48.7	49.2	49.7
51	38.7	37.6	38.4	39.6	40.8	42.0	43.1	44.1	45.0	45.8	46.6	47.3	48.0	48.6	49.2	49.7
52	36.1	36.6	37.9	39.2	40.6	41.8	42.9	44.0	44.9	45.8	46.6	47.3	48.0	48.6	49.2	49.7
53	34.6	35.9	37.4	38.9	40.3	41.6	42.8	43.9	44.8	45.7	46.5	47.2	47.9	48.5	49.1	49.7
54	33.6	35.3	37.1	38.7	40.2	41.5	42.7	43.8	44.8	45.6	46.5	47.2	47.9	48.5	49.1	49.6

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 4.00

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.4
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.6	63.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.5	61.6	58.9
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.7	60.5	58.0	56.8
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.9	59.5	57.1	56.0	55.4
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.0	58.8	56.4	55.3	54.7	54.5
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.5	58.3	55.7	54.5	54.1	53.9	53.8
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.4	58.0	55.0	53.8	53.4	53.2	53.2	53.3
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.1	54.4	53.1	52.7	52.5	52.6	52.7	53.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.9	54.0	52.5	51.9	51.8	51.9	52.1	52.4	52.7
41	0.0	0.0	0.0	0.0	0.0	61.5	53.7	51.8	51.2	51.1	51.4	51.7	52.1	52.4	52.7	52.4
42	0.0	0.0	0.0	0.0	0.0	76.4	53.8	51.2	50.4	50.3	50.4	50.7	51.1	51.4	51.8	52.2
43	0.0	0.0	0.0	0.0	0.0	54.7	50.7	49.7	49.5	49.6	50.0	50.3	50.8	51.2	51.6	52.0
44	0.0	0.0	0.0	0.0	58.5	50.4	48.9	48.6	48.8	49.1	49.6	50.0	50.5	51.0	51.5	51.9
45	0.0	0.0	0.0	0.0	50.7	48.2	47.7	47.9	48.3	48.7	49.3	49.8	50.3	50.8	51.3	51.8
46	0.0	0.0	0.0	52.8	47.6	46.8	46.9	47.3	47.8	48.4	49.0	49.6	50.2	50.7	51.2	51.7
47	0.0	0.0	83.3	47.5	45.9	45.8	46.3	46.9	47.5	48.2	48.8	49.4	50.0	50.6	51.1	51.6
48	0.0	0.0	49.0	45.1	44.7	45.1	45.8	46.5	47.2	48.0	48.7	49.3	49.9	50.5	51.0	51.6
49	0.0	70.8	44.7	43.6	43.9	44.6	45.4	46.2	47.0	47.8	48.5	49.2	49.8	50.4	51.0	51.5
50	0.0	45.9	42.5	42.5	43.3	44.1	45.1	46.0	46.8	47.6	48.4	49.1	49.7	50.4	50.9	51.4
51	0.0	41.8	41.1	41.8	42.8	43.8	44.8	45.8	46.7	47.5	48.3	49.0	49.7	50.3	50.9	51.4
52	43.3	39.8	40.2	41.2	42.4	43.5	44.6	45.6	46.6	47.4	48.2	48.9	49.6	50.2	50.8	51.4
53	38.9	38.5	39.5	40.8	42.1	43.3	44.4	45.5	46.4	47.3	48.1	48.9	49.6	50.2	50.8	51.3
54	36.7	37.6	39.0	40.4	41.8	43.1	44.3	45.4	46.4	47.2	48.1	48.8	49.5	50.2	50.8	51.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY =4.13

FOUR-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

RETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.4
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.3	61.6
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.8	60.6	58.7
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.8	59.6	57.9	57.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.2	58.9	57.1	56.3	55.9
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.9	58.2	56.4	55.6	55.2	55.1
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.3	57.6	55.7	54.9	54.5	54.5	54.5
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	57.2	55.1	54.2	53.9	53.8	53.9	54.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.1	57.1	54.5	53.5	53.2	53.1	53.2	53.4	53.7
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.4	53.9	52.8	52.4	52.4	52.6	52.8	53.1	53.4
42	0.0	0.0	0.0	0.0	0.0	0.0	58.7	53.5	52.1	51.7	51.7	51.8	52.1	52.5	52.8	53.2
43	0.0	0.0	0.0	0.0	0.0	63.4	53.4	51.5	50.9	50.9	51.1	51.4	51.8	52.2	52.6	53.0
44	0.0	0.0	0.0	0.0	0.0	53.9	50.9	50.1	50.0	50.3	50.6	51.1	51.5	52.0	52.4	52.8
45	0.0	0.0	0.0	0.0	56.0	50.4	49.3	49.2	49.4	49.8	50.3	50.8	51.3	51.8	52.3	52.7
46	0.0	0.0	0.0	70.9	50.5	48.5	48.2	48.5	48.9	49.4	50.0	50.6	51.1	51.6	52.1	52.6
47	0.0	0.0	0.0	51.7	47.9	47.3	47.5	47.9	48.5	49.1	49.8	50.4	50.9	51.5	52.0	52.5
48	0.0	0.0	60.4	47.6	46.3	46.4	46.9	47.5	48.2	48.9	49.6	50.2	50.8	51.4	51.9	52.4
49	0.0	0.0	48.4	45.4	45.2	45.7	46.4	47.2	47.9	48.7	49.4	50.1	50.7	51.3	51.9	52.4
50	0.0	57.3	44.8	44.0	44.4	45.2	46.0	46.9	47.7	48.5	49.3	50.0	50.6	51.2	51.8	52.3
51	0.0	45.6	42.9	43.1	43.8	44.8	45.7	46.7	47.6	48.4	49.2	49.9	50.5	51.2	51.7	52.3
52	63.0	42.1	41.6	42.4	43.4	44.5	45.5	46.5	47.4	48.3	49.1	49.8	50.5	51.1	51.7	52.2
53	43.0	40.2	40.7	41.8	43.0	44.2	45.3	46.3	47.3	48.2	49.0	49.7	50.4	51.0	51.6	52.2
54	39.1	38.9	40.0	41.4	42.7	44.0	45.1	46.2	47.2	48.1	48.9	49.7	50.4	51.0	51.6	52.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =4.60

FOUR-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
55	58.6	44.1	43.8	44.6	45.7	46.9	48.0	49.0	50.0	50.9	51.8	52.5	53.3	53.9	54.5	55.1	
56	45.0	42.3	42.9	44.1	45.4	46.6	47.8	48.9	49.9	50.8	51.7	52.5	53.2	53.9	54.5	55.1	

5. HARNESS

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.54

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	23.3	22.4	22.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	21.9	21.4	21.2	21.1	21.1	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	21.8	20.9	20.6	20.5	20.5	20.5	20.6	20.7	
17	0.0	0.0	0.0	0.0	0.0	24.9	20.7	20.0	19.8	19.8	19.8	19.9	20.0	20.2	20.3	20.4	
18	0.0	0.0	0.0	0.0	19.9	19.1	18.9	19.0	19.1	19.3	19.5	19.6	19.8	20.0	20.2	20.3	
19	0.0	0.0	19.5	18.1	17.9	18.0	18.3	18.5	18.8	19.0	19.3	19.5	19.7	19.9	20.1	20.2	
20	0.0	17.0	16.7	16.9	17.2	17.6	17.9	18.3	18.6	18.9	19.1	19.4	19.6	19.8	20.0	20.2	
21	15.1	15.4	15.9	16.4	16.9	17.3	17.8	18.1	18.5	18.8	19.1	19.3	19.5	19.8	20.0	20.1	
22	14.0	14.8	15.5	16.1	16.7	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.5	19.7	19.9	20.1	
23	13.5	14.5	15.3	16.0	16.6	17.1	17.6	18.0	18.3	18.7	19.0	19.2	19.5	19.7	19.9	20.1	
24	13.3	14.3	15.1	15.9	16.5	17.0	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.7	19.9	20.1	
25	13.1	14.2	15.1	15.3	16.4	17.0	17.5	17.9	18.5	18.6	18.9	19.2	19.5	19.7	19.9	20.1	
26	13.0	14.1	15.0	15.8	16.4	17.0	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.7	19.9	20.1	
27	13.0	14.1	15.0	15.7	16.4	17.0	17.4	17.9	18.3	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
28	12.9	14.0	15.0	15.7	16.4	16.9	17.4	17.9	18.3	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
29	12.9	14.0	14.9	15.7	16.4	16.9	17.4	17.9	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
30	12.9	14.0	14.9	15.7	16.4	16.9	17.4	17.9	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
31	12.9	14.0	14.9	15.7	16.3	16.9	17.4	17.9	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
32	12.9	14.0	14.9	15.7	16.3	16.9	17.4	17.9	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
33	12.9	14.0	14.9	15.7	16.3	16.9	17.4	17.9	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
34	12.9	14.0	14.9	15.7	16.3	16.9	17.4	17.9	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
35	12.9	14.0	14.9	15.7	16.3	16.9	17.4	17.8	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
36	12.9	14.0	14.9	15.7	16.3	16.9	17.4	17.8	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	
37	12.9	14.0	14.9	15.7	16.3	16.9	17.4	17.8	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.55

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.56

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	23.6
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	23.2	22.3	21.9	21.7	21.6
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	22.0	21.4	21.1	21.0	21.0	21.1	21.1
17	0.0	0.0	0.0	0.0	0.0	0.0	22.8	21.0	20.5	20.4	20.4	20.4	20.5	20.6	20.7	20.9
18	0.0	0.0	0.0	0.0	22.5	20.1	19.6	19.6	19.6	19.8	19.9	20.1	20.2	20.4	20.6	20.7
19	0.0	0.0	0.0	19.3	18.7	18.6	18.8	19.0	19.2	19.4	19.7	19.9	20.1	20.3	20.5	20.6
20	0.0	19.1	17.6	17.5	17.7	18.0	18.4	18.7	19.0	19.3	19.5	19.8	20.0	20.2	20.4	20.6
21	16.4	16.1	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.1	19.4	19.7	19.9	20.1	20.3	20.5
22	14.6	15.2	15.9	16.5	17.1	17.6	18.0	18.4	18.8	19.1	19.4	19.6	19.9	20.1	20.3	20.5
23	13.9	14.8	15.6	16.3	16.9	17.4	17.9	18.3	18.7	19.0	19.3	19.6	19.9	20.1	20.3	20.5
24	13.6	14.6	15.5	16.2	16.8	17.4	17.9	18.3	18.7	19.0	19.3	19.6	19.8	20.1	20.3	20.5
25	13.4	14.5	15.4	16.1	16.8	17.3	17.8	18.2	18.6	19.0	19.3	19.6	19.8	20.1	20.3	20.5
26	13.3	14.4	15.3	16.1	16.7	17.3	17.8	18.2	18.6	19.0	19.3	19.6	19.5	20.0	20.3	20.5
27	13.2	14.3	15.2	16.0	16.7	17.3	17.8	18.2	18.6	18.9	19.3	19.5	19.8	20.0	20.3	20.5
28	13.2	14.3	15.2	16.0	16.7	17.3	17.8	18.2	18.6	18.9	19.3	19.5	19.8	20.0	20.3	20.4
29	13.2	14.3	15.2	16.0	16.7	17.2	17.7	18.2	18.6	18.9	19.3	19.5	19.8	20.0	20.2	20.4
30	13.1	14.3	15.2	16.0	16.7	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.4
31	13.1	14.3	15.2	16.0	16.7	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.4
32	13.1	14.2	15.2	16.0	16.6	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.4
33	13.1	14.2	15.2	16.0	16.6	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.4
34	13.1	14.2	15.2	16.0	16.6	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.4
35	13.1	14.2	15.2	16.0	16.6	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.4
36	13.1	14.2	15.2	16.0	16.6	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.4
37	13.1	14.2	15.2	16.0	16.6	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.4

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.57

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	21.6	18.1	17.8	18.0	18.3	18.6	18.9	19.2	19.5	19.7	20.0	20.2	20.4	20.6	20.8	
21	17.4	16.5	16.7	17.1	17.5	17.9	18.3	18.7	19.0	19.3	19.6	19.9	20.1	20.3	20.5	20.7	
22	14.9	15.5	16.1	16.7	17.3	17.7	18.2	18.6	18.9	19.3	19.6	19.8	20.1	20.3	20.5	20.7	
23	14.2	15.0	15.8	16.5	17.1	17.6	18.1	18.5	18.9	19.2	19.5	19.8	20.0	20.3	20.5	20.7	
24	13.8	14.8	15.6	16.4	17.0	17.5	18.0	18.4	18.8	19.2	19.5	19.8	20.0	20.2	20.5	20.7	
25	13.6	14.6	15.5	16.3	16.9	17.5	18.0	18.4	18.8	19.1	19.5	19.7	20.0	20.2	20.4	20.6	
26	13.5	14.6	15.5	16.2	16.9	17.5	18.0	18.4	18.8	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
27	13.4	14.5	15.4	16.2	16.9	17.4	17.9	18.4	18.8	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
28	13.3	14.4	15.4	16.2	16.9	17.4	17.9	18.4	18.8	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
29	13.3	14.4	15.4	16.1	16.8	17.4	17.9	18.4	18.8	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
30	13.3	14.4	15.3	16.1	16.8	17.4	17.9	18.4	18.7	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
31	13.2	14.4	15.3	16.1	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
32	13.2	14.4	15.3	16.1	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
33	13.2	14.4	15.3	16.1	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
34	13.2	14.4	15.3	16.1	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
35	13.2	14.4	15.3	16.1	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
36	13.2	14.4	15.3	16.1	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.4	20.6	
37	13.2	14.4	15.3	16.1	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.4	20.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.58

FIVE-HARNES WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.8	25.3	23.9
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.3	23.4	22.7	22.4	22.2	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	22.3	21.8	21.7	21.6	21.6	21.6	
17	0.0	0.0	0.0	0.0	0.0	0.0	32.6	22.4	21.4	21.0	20.9	20.9	21.0	21.1	21.2	21.3	
18	0.0	0.0	0.0	0.0	0.0	21.6	20.5	20.2	20.2	20.3	20.4	20.5	20.7	20.8	21.0	21.1	
19	0.0	0.0	0.0	21.4	19.6	19.3	19.3	19.5	19.7	19.9	20.1	20.3	20.5	20.7	20.8	21.0	21.0
20	0.0	0.0	18.8	18.2	18.3	18.5	18.8	19.1	19.4	19.7	19.9	20.1	20.4	20.6	20.8	20.9	
21	19.2	17.0	17.0	17.3	17.7	18.1	18.5	18.9	19.2	19.5	19.8	20.1	20.3	20.5	20.7	20.9	
22	15.3	15.8	16.3	16.9	17.4	17.9	18.4	18.8	19.1	19.4	19.7	20.0	20.2	20.5	20.7	20.9	
23	14.4	15.2	16.0	16.7	17.3	17.8	18.3	18.7	19.0	19.4	19.7	20.0	20.2	20.4	20.7	20.9	
24	14.0	15.0	15.8	16.5	17.2	17.7	18.2	18.6	19.0	19.3	19.7	19.9	20.2	20.4	20.6	20.8	
25	13.7	14.8	15.7	16.4	17.1	17.7	18.1	18.6	19.0	19.3	19.6	19.9	20.2	20.4	20.6	20.8	
26	13.6	14.7	15.6	16.4	17.0	17.6	18.1	18.6	18.9	19.3	19.6	19.9	20.2	20.4	20.6	20.8	
27	13.5	14.6	15.6	16.3	17.0	17.6	18.1	18.5	18.9	19.3	19.6	19.9	20.2	20.4	20.6	20.8	
28	13.5	14.6	15.5	16.3	17.0	17.6	18.1	18.5	18.9	19.3	19.6	19.9	20.2	20.4	20.6	20.8	
29	13.4	14.6	15.5	16.3	17.0	17.6	18.1	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	
30	13.4	14.5	15.5	16.3	17.0	17.5	18.1	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	
31	13.4	14.5	15.5	16.3	17.0	17.5	18.1	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	
32	13.4	14.5	15.5	16.3	16.9	17.5	18.1	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	
33	13.3	14.5	15.5	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	
34	13.3	14.5	15.4	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	
35	13.3	14.5	15.4	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	
36	13.3	14.5	15.4	16.2	16.9	17.5	18.0	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	
37	13.3	14.5	15.4	16.2	16.9	17.5	18.0	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.59

FIVE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.60

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9	25.0	23.7	23.2	22.9	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	23.5	22.7	22.3	22.2	22.1	22.1	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	22.5	21.8	21.6	21.5	21.5	21.6	21.6	21.7	
18	0.0	0.0	0.0	0.0	0.0	24.6	21.6	21.0	20.3	20.8	20.9	21.0	21.1	21.2	21.4	21.5	
19	0.0	0.0	0.0	0.0	20.9	20.1	19.9	20.0	20.1	20.3	20.5	20.7	20.9	21.1	21.2	21.4	
20	0.0	0.0	20.8	19.1	18.9	19.0	19.3	19.5	19.8	20.1	20.3	20.5	20.7	21.0	21.1	21.3	
21	0.0	18.2	17.7	17.9	18.2	18.6	18.9	19.3	19.6	19.9	20.2	20.4	20.7	20.9	21.1	21.3	
22	16.2	16.3	16.8	17.3	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.4	20.6	20.8	21.0	21.2	
23	14.9	15.7	16.4	17.0	17.6	18.1	18.6	19.0	19.4	19.7	20.0	20.3	20.6	20.8	21.0	21.2	
24	14.4	15.3	16.1	16.9	17.5	18.0	18.5	19.0	19.3	19.7	20.0	20.3	20.5	20.8	21.0	21.2	
25	14.1	15.1	16.0	16.8	17.4	18.0	18.5	18.9	19.3	19.7	20.0	20.3	20.5	20.8	21.0	21.2	
26	13.9	15.0	15.9	16.7	17.4	17.9	18.4	18.9	19.3	19.6	20.0	20.2	20.5	20.8	21.0	21.2	
27	13.8	14.9	15.8	16.6	17.3	17.9	18.4	18.9	19.3	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
28	13.7	14.9	15.8	16.6	17.3	17.9	18.4	18.8	19.3	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
29	13.7	14.3	15.3	16.6	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
30	13.6	14.8	15.8	16.6	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
31	13.6	14.8	15.7	16.5	17.2	17.8	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
32	13.6	14.8	15.7	16.5	17.2	17.8	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
33	13.6	14.7	15.7	16.5	17.2	17.8	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
34	13.6	14.7	15.7	16.5	17.2	17.8	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
35	13.6	14.7	15.7	16.5	17.2	17.8	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
36	13.6	14.7	15.7	16.5	17.2	17.8	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	
37	13.6	14.7	15.7	16.5	17.2	17.8	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.61

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YAR: BULK DENSITY = 0.62

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.3	23.7	23.1	22.8	22.7	22.6
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	22.7	22.2	22.1	22.0	22.0	22.1	22.2
18	0.0	0.0	0.0	0.0	0.0	0.0	23.2	21.8	21.4	21.3	21.4	21.4	21.5	21.7	21.8	21.9
19	0.0	0.0	0.0	0.0	23.0	21.0	20.6	20.5	20.6	20.8	20.9	21.1	21.3	21.5	21.6	21.8
20	0.0	0.0	0.0	20.3	19.6	19.6	19.8	20.0	20.2	20.5	20.7	20.9	21.1	21.3	21.5	21.7
21	0.0	20.5	18.6	18.5	18.7	19.0	19.3	19.7	20.0	20.3	20.5	20.8	21.0	21.2	21.5	21.6
22	17.7	17.0	17.3	17.8	18.2	18.7	19.1	19.5	19.8	20.2	20.4	20.7	21.0	21.2	21.4	21.6
23	15.5	16.1	16.8	17.4	18.0	18.5	19.0	19.4	19.7	20.1	20.4	20.7	20.9	21.2	21.4	21.6
24	14.8	15.7	16.5	17.2	17.8	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.1	21.4	21.6
25	14.4	15.4	16.3	17.1	17.7	18.3	18.8	19.2	19.6	20.0	20.3	20.6	20.9	21.1	21.3	21.5
26	14.2	15.3	16.2	17.0	17.7	18.2	18.8	19.2	19.6	20.0	20.3	20.6	20.9	21.1	21.3	21.5
27	14.0	15.2	16.1	16.9	17.6	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.1	21.3	21.5
28	14.0	15.1	16.1	16.9	17.6	18.2	18.7	19.2	19.6	19.9	20.3	20.6	20.9	21.1	21.3	21.5
29	13.9	15.1	16.0	16.9	17.6	18.2	18.7	19.2	19.6	19.9	20.3	20.6	20.8	21.1	21.3	21.5
30	13.9	15.0	16.0	16.8	17.5	18.2	18.7	19.1	19.6	19.9	20.3	20.6	20.9	21.1	21.3	21.5
31	13.8	15.0	16.0	16.8	17.5	18.1	18.7	19.1	19.6	19.9	20.3	20.6	20.8	21.1	21.3	21.5
32	13.8	15.0	16.0	16.8	17.5	18.1	18.7	19.1	19.6	19.9	20.3	20.6	20.8	21.1	21.3	21.5
33	13.8	15.0	16.0	16.8	17.5	18.1	18.7	19.1	19.5	19.9	20.3	20.6	20.8	21.1	21.3	21.5
34	13.8	15.0	16.0	16.8	17.5	18.1	18.7	19.1	19.5	19.9	20.3	20.6	20.8	21.1	21.3	21.5
35	13.8	15.0	16.0	16.8	17.5	18.1	18.7	19.1	19.5	19.9	20.2	20.6	20.8	21.1	21.3	21.5
36	13.8	15.0	16.0	16.8	17.5	18.1	18.7	19.1	19.5	19.9	20.2	20.5	20.8	21.1	21.3	21.5
37	13.8	15.0	16.0	16.8	17.5	18.1	18.7	19.1	19.5	19.9	20.2	20.5	20.8	21.1	21.3	21.5

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.63

FIVE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	18.9	17.5	17.6	18.0	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.1	21.4	21.6	21.8
23	15.8	16.4	17.0	17.6	18.2	18.7	19.1	19.5	19.9	20.3	20.6	20.8	21.1	21.3	21.6	21.8
24	15.0	15.9	16.7	17.4	18.0	18.5	19.0	19.5	19.8	20.2	20.5	20.8	21.1	21.3	21.5	21.7
25	14.6	15.6	16.5	17.2	17.9	18.5	19.0	19.4	19.8	20.2	20.5	20.8	21.0	21.3	21.5	21.7
26	14.3	15.4	16.4	17.1	17.8	18.4	18.9	19.4	19.8	20.1	20.5	20.8	21.0	21.3	21.5	21.7
27	14.2	15.3	16.3	17.1	17.8	18.4	18.9	19.3	19.8	20.1	20.4	20.7	21.0	21.3	21.5	21.7
28	14.1	15.3	16.2	17.0	17.7	18.3	18.9	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.5	21.7
29	14.0	15.2	16.2	17.0	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.5	21.7
30	14.0	15.2	16.2	17.0	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7
31	14.0	15.1	16.1	17.0	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7
32	13.9	15.1	16.1	17.0	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7
33	13.9	15.1	16.1	16.9	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7
34	13.9	15.1	16.1	16.9	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7
35	13.9	15.1	16.1	16.9	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7
36	13.9	15.1	16.1	16.9	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7
37	13.9	15.1	16.1	16.9	17.7	18.3	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.64

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.4
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	25.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	25.0	23.9	23.5	23.3	23.2	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.8	23.8	23.0	22.7	22.6	22.5	22.6	22.6	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	26.4	23.0	22.2	21.9	21.9	21.9	22.0	22.1	22.2	22.3	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	22.3	21.4	21.1	21.1	21.2	21.4	21.5	21.7	21.9	22.0	22.2	0.0	0.0	0.0
20	0.0	0.0	0.0	22.2	20.5	20.2	20.3	20.4	20.6	20.9	21.1	21.3	21.5	21.7	21.9	22.1	0.0	0.0	0.0
21	0.0	0.0	19.7	19.2	19.2	19.5	19.8	20.1	20.4	20.6	20.9	21.2	21.4	21.6	21.8	22.0	0.0	0.0	0.0
22	21.1	17.9	17.9	18.2	18.7	19.1	19.5	19.9	20.2	20.5	20.8	21.1	21.3	21.6	21.8	22.0	0.0	0.0	0.0
23	16.2	16.6	17.2	17.8	18.4	18.9	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.5	21.7	21.9	0.0	0.0	0.0
24	15.2	16.1	16.9	17.5	18.2	18.7	19.2	19.6	20.0	20.4	20.7	21.0	21.2	21.5	21.7	21.9	0.0	0.0	0.0
25	14.7	15.8	16.6	17.4	18.0	18.6	19.1	19.6	20.0	20.3	20.7	20.9	21.2	21.5	21.7	21.9	0.0	0.0	0.0
26	14.5	15.6	16.5	17.3	18.0	18.6	19.1	19.5	19.9	20.3	20.6	20.9	21.2	21.4	21.7	21.9	0.0	0.0	0.0
27	14.3	15.5	16.4	17.2	17.9	18.5	19.0	19.5	19.9	20.3	20.6	20.9	21.2	21.4	21.7	21.9	0.0	0.0	0.0
28	14.2	15.4	16.4	17.2	17.9	18.5	19.0	19.5	19.9	20.3	20.5	20.9	21.2	21.4	21.7	21.9	0.0	0.0	0.0
29	14.2	15.3	16.3	17.1	17.8	18.5	19.0	19.5	19.9	20.3	20.6	20.9	21.2	21.4	21.7	21.9	0.0	0.0	0.0
30	14.1	15.3	16.3	17.1	17.6	18.4	19.0	19.5	19.9	20.2	20.6	20.9	21.2	21.4	21.6	21.9	0.0	0.0	0.0
31	14.1	15.3	16.3	17.1	17.8	18.4	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.6	21.9	0.0	0.0	0.0
32	14.1	15.3	16.3	17.1	17.8	18.4	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.6	21.9	0.0	0.0	0.0
33	14.0	15.2	16.2	17.1	17.8	18.4	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.6	21.9	0.0	0.0	0.0
34	14.0	15.2	16.2	17.1	17.8	18.4	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.6	21.9	0.0	0.0	0.0
35	14.0	15.2	16.2	17.1	17.8	18.4	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.6	21.9	0.0	0.0	0.0
36	14.0	15.2	16.2	17.1	17.8	18.4	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.6	21.9	0.0	0.0	0.0
37	14.0	15.2	16.2	17.1	17.8	18.4	19.0	19.4	19.9	20.2	20.6	20.9	21.2	21.4	21.6	21.9	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY -0.65

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4	25.8	24.8
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9	24.4	23.9	23.6	23.4
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7	24.6	23.5	23.0	22.9	22.8	22.8	22.9
18	0.0	0.0	0.0	0.0	0.0	0.0	33.7	23.7	22.6	22.3	22.2	22.2	22.2	22.3	22.4	22.5
19	0.0	0.0	0.0	0.0	0.0	23.2	21.8	21.5	21.4	21.5	21.6	21.7	21.9	22.1	22.2	22.4
20	0.0	0.0	0.0	23.9	21.0	20.6	20.5	20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.1	22.3
21	0.0	0.0	20.5	19.5	19.7	20.0	20.3	20.6	20.8	21.1	21.3	21.6	21.8	22.0	22.2	22.2
22	0.0	18.5	18.2	18.5	18.9	19.3	19.7	20.0	20.4	20.7	21.0	21.3	21.5	21.7	21.9	22.1
23	16.7	16.9	17.4	18.0	18.5	19.0	19.5	19.9	20.3	20.6	20.9	21.2	21.4	21.7	21.9	22.1
24	15.5	16.3	17.0	17.7	18.3	18.9	19.4	19.9	20.2	20.5	20.9	21.1	21.4	21.7	21.9	22.1
25	14.9	15.9	16.8	17.6	18.2	18.8	19.3	19.7	20.1	20.5	20.8	21.1	21.4	21.6	21.9	22.1
26	14.6	15.7	16.7	17.4	18.1	18.7	19.2	19.7	20.1	20.5	20.8	21.1	21.4	21.6	21.8	22.1
27	14.5	15.6	16.6	17.4	18.1	18.7	19.2	19.7	20.1	20.4	20.8	21.1	21.4	21.6	21.8	22.0
28	14.4	15.5	16.5	17.3	18.0	18.6	19.2	19.6	20.1	20.4	20.8	21.1	21.3	21.6	21.8	22.0
29	14.3	15.5	16.5	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.8	21.1	21.3	21.6	21.9	22.0
30	14.2	15.4	16.4	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.7	21.1	21.3	21.6	21.8	22.0
31	14.2	15.4	16.4	17.2	18.0	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0
32	14.2	15.4	16.4	17.2	17.9	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0
33	14.1	15.4	16.4	17.2	17.9	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0
34	14.1	15.4	16.4	17.2	17.9	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0
35	14.1	15.3	16.4	17.2	17.9	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0
36	14.1	15.3	16.4	17.2	17.9	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0
37	14.1	15.3	16.4	17.2	17.9	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.66

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	26.5	25.3
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	25.0	24.3	23.9	23.7
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	24.0	23.4	23.2	23.1	23.1	23.1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	23.1	22.6	22.4	22.4	22.5	22.5	22.6	22.8
19	0.0	0.0	0.0	0.0	0.0	24.4	22.3	21.8	21.7	21.7	21.8	22.0	22.1	22.3	22.4	22.6
20	0.0	0.0	0.0	28.3	21.6	20.9	20.8	20.9	21.1	21.3	21.5	21.7	21.9	22.1	22.3	22.4
21	0.0	0.0	21.6	20.0	19.8	20.0	20.2	20.5	20.8	21.0	21.3	21.5	21.8	22.0	22.2	22.4
22	0.0	19.2	18.6	18.8	19.1	19.5	19.9	20.2	20.6	20.9	21.2	21.4	21.7	21.9	22.1	22.3
23	17.2	17.2	17.7	18.2	18.7	19.2	19.7	20.1	20.4	20.8	21.1	21.4	21.6	21.9	22.1	22.3
24	15.7	16.5	17.2	17.9	18.5	19.0	19.5	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0	22.3
25	15.1	16.1	17.0	17.7	18.4	18.9	19.4	19.9	20.3	20.7	21.0	21.3	21.6	21.8	22.0	22.2
26	14.8	15.9	16.8	17.6	18.3	18.9	19.4	19.8	20.3	20.6	21.0	21.3	21.5	21.8	22.0	22.2
27	14.6	15.7	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.2
28	14.5	15.7	16.6	17.5	18.2	18.8	19.3	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.2
29	14.4	15.6	16.6	17.4	18.1	18.8	19.3	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.2
30	14.3	15.6	16.6	17.4	18.1	18.7	19.3	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.2
31	14.3	15.5	16.5	17.4	18.1	18.7	19.3	19.8	20.2	20.6	20.9	21.2	21.5	21.7	22.0	22.2
32	14.3	15.5	16.5	17.4	18.1	18.7	19.3	19.7	20.2	20.6	20.9	21.2	21.5	21.7	22.0	22.2
33	14.3	15.5	16.5	17.4	18.1	18.7	19.3	19.7	20.2	20.6	20.9	21.2	21.5	21.7	22.0	22.2
34	14.2	15.5	16.5	17.3	18.1	18.7	19.3	19.7	20.2	20.6	20.9	21.2	21.5	21.7	22.0	22.2
35	14.2	15.5	16.5	17.3	18.1	18.7	19.3	19.7	20.2	20.5	20.9	21.2	21.5	21.7	22.0	22.2
36	14.2	15.5	16.5	17.3	18.1	18.7	19.3	19.7	20.2	20.5	20.9	21.2	21.5	21.7	22.0	22.2
37	14.2	15.5	16.5	17.3	18.1	18.7	19.3	19.7	20.2	20.5	20.9	21.2	21.5	21.7	22.0	22.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.67

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	25.9
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	25.7	24.7	24.2	24.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.7	24.5	23.8	23.5	23.3	23.3	23.3	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	23.6	23.0	22.7	22.7	22.7	22.8	22.9	23.0	
19	0.0	0.0	0.0	0.0	0.0	26.3	22.9	22.2	22.0	22.0	22.0	22.2	22.3	22.5	22.6	22.8	
20	0.0	0.0	0.0	0.0	22.4	21.3	21.1	21.2	21.3	21.5	21.7	21.9	22.1	22.3	22.5	22.6	
21	0.0	0.0	23.4	20.5	20.1	20.2	20.4	20.7	21.0	21.2	21.5	21.7	21.9	22.2	22.4	22.5	
22	0.0	20.1	19.0	19.0	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.6	21.8	22.1	22.3	22.5	
23	17.9	17.5	17.9	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.2	22.5	
24	16.0	16.7	17.4	18.1	18.7	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.7	22.0	22.2	22.4	
25	15.3	16.3	17.1	17.9	18.5	19.1	19.6	20.1	20.5	20.8	21.1	21.4	21.7	22.0	22.2	22.4	
26	15.0	16.0	17.0	17.7	18.4	19.0	19.5	20.0	20.4	20.8	21.1	21.4	21.7	21.9	22.2	22.4	
27	14.7	15.9	16.8	17.7	18.4	19.0	19.5	20.0	20.4	20.8	21.1	21.4	21.7	21.9	22.2	22.4	
28	14.6	15.8	16.8	17.6	18.3	18.9	19.5	19.9	20.4	20.7	21.1	21.4	21.7	21.9	22.2	22.4	
29	14.5	15.7	16.7	17.6	18.3	18.9	19.4	19.9	20.4	20.7	21.1	21.4	21.7	21.9	22.2	22.4	
30	14.5	15.7	16.7	17.5	18.3	18.9	19.4	19.9	20.3	20.7	21.1	21.4	21.7	21.9	22.2	22.4	
31	14.4	15.6	16.7	17.5	18.2	18.9	19.4	19.9	20.3	20.7	21.1	21.4	21.7	21.9	22.1	22.4	
32	14.4	15.6	16.6	17.5	18.2	18.9	19.4	19.9	20.3	20.7	21.1	21.4	21.7	21.9	22.1	22.4	
33	14.4	15.6	16.6	17.5	18.2	18.9	19.4	19.9	20.3	20.7	21.1	21.4	21.7	21.9	22.1	22.4	
34	14.4	15.6	16.6	17.5	18.2	18.8	19.4	19.9	20.3	20.7	21.1	21.4	21.6	21.9	22.1	22.4	
35	14.3	15.6	16.6	17.5	18.2	18.8	19.4	19.9	20.3	20.7	21.1	21.4	21.6	21.9	22.1	22.4	
36	14.3	15.6	16.6	17.5	18.2	18.8	19.4	19.9	20.3	20.7	21.1	21.4	21.6	21.9	22.1	22.4	
37	14.3	15.6	16.6	17.5	18.2	18.8	19.4	19.9	20.3	20.7	21.0	21.4	21.6	21.9	22.1	22.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.68

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.69

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.70

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	26.3	25.4	25.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	25.2	24.5	24.2	24.1	24.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9	24.3	23.7	23.5	23.4	23.5	23.5	23.6
19	0.0	0.0	0.0	0.0	0.0	0.0	25.5	23.5	23.0	22.8	22.8	22.8	22.9	23.1	23.2	23.3
20	0.0	0.0	0.0	0.0	27.2	22.9	22.1	22.0	22.0	22.1	22.3	22.5	22.7	22.8	23.0	23.2
21	0.0	0.0	0.0	22.7	21.3	21.1	21.1	21.3	21.6	21.8	22.0	22.3	22.5	22.7	22.9	23.1
22	0.0	0.0	20.5	20.0	20.1	20.3	20.7	21.0	21.3	21.6	21.9	22.1	22.4	22.6	22.8	23.0
23	22.2	18.8	18.7	19.1	19.5	20.0	20.4	20.8	21.1	21.5	21.8	22.0	22.3	22.5	22.8	23.0
24	17.1	17.4	18.0	18.6	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.2	22.5	22.7	22.9
25	16.0	16.8	17.7	18.4	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.5	22.7	22.9
26	15.5	16.5	17.4	18.2	18.9	19.5	20.0	20.5	20.9	21.3	21.6	21.9	22.2	22.4	22.7	22.9
27	15.2	16.3	17.3	18.1	18.8	19.4	20.0	20.4	20.9	21.2	21.6	21.9	22.2	22.4	22.7	22.9
28	15.0	16.2	17.2	18.0	18.7	19.4	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.4	22.7	22.9
29	14.9	16.1	17.1	18.0	18.7	19.3	19.9	20.4	20.8	21.2	21.5	21.9	22.1	22.4	22.7	22.9
30	14.8	16.1	17.1	17.9	18.7	19.3	19.9	20.4	20.8	21.2	21.5	21.9	22.1	22.4	22.6	22.9
31	14.8	16.0	17.0	17.9	18.7	19.3	19.9	20.4	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9
32	14.7	16.0	17.0	17.9	18.6	19.3	19.8	20.3	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9
33	14.7	16.0	17.0	17.9	18.6	19.3	19.8	20.3	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9
34	14.7	15.9	17.0	17.9	18.6	19.3	19.8	20.3	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9
35	14.7	15.9	17.0	17.9	18.6	19.3	19.8	20.3	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9
36	14.7	15.9	17.0	17.9	18.6	19.3	19.8	20.3	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9
37	14.7	15.9	17.0	17.9	18.6	19.3	19.8	20.3	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.71

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.72

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.6	27.8	26.3	25.7	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.2	26.4	25.3	24.9	24.6	24.5		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	25.4	24.5	24.1	24.0	23.9	24.0	24.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	30.5	24.7	23.7	23.4	23.3	23.3	23.4	23.5	23.6	23.7	
20	0.0	0.0	0.0	0.0	0.0	24.4	23.0	22.6	22.5	22.6	22.7	22.9	23.0	23.2	23.4	23.5	
21	0.0	0.0	0.0	26.0	22.3	21.7	21.7	21.8	22.0	22.2	22.4	22.6	22.8	23.1	23.2	23.4	
22	0.0	0.0	22.2	20.7	20.6	20.8	21.1	21.4	21.7	21.9	22.2	22.5	22.7	22.9	23.2	23.4	
23	0.0	20.0	19.4	19.6	19.9	20.3	20.7	21.1	21.5	21.8	22.1	22.4	22.6	22.9	23.1	23.3	
24	18.0	18.0	18.5	19.0	19.6	20.1	20.5	21.0	21.3	21.7	22.0	22.3	22.6	22.8	23.1	23.3	
25	16.5	17.3	18.0	18.7	19.3	19.9	20.4	20.9	21.3	21.6	22.0	22.3	22.5	22.8	23.0	23.2	
26	15.8	16.9	17.7	18.5	19.2	19.8	20.3	20.8	21.2	21.6	21.9	22.2	22.5	22.8	23.0	23.2	
27	15.5	16.6	17.6	18.4	19.1	19.7	20.3	20.7	21.2	21.5	21.9	22.2	22.5	22.8	23.0	23.2	
28	15.3	16.5	17.5	18.3	19.0	19.7	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.7	23.0	23.2	
29	15.2	16.4	17.4	18.2	19.0	19.6	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.7	23.0	23.2	
30	15.1	16.3	17.3	18.2	19.0	19.6	20.2	20.7	21.1	21.5	21.8	22.2	22.5	22.7	23.0	23.2	
31	15.0	16.3	17.3	18.2	18.9	19.6	20.1	20.6	21.1	21.5	21.8	22.2	22.5	22.7	23.0	23.2	
32	15.0	16.2	17.3	18.2	18.9	19.6	20.1	20.6	21.1	21.5	21.8	22.2	22.4	22.7	23.0	23.2	
33	14.9	16.2	17.3	18.1	18.9	19.6	20.1	20.6	21.1	21.5	21.8	22.2	22.4	22.7	23.0	23.2	
34	14.9	16.2	17.2	18.1	18.9	19.5	20.1	20.6	21.1	21.5	21.8	22.2	22.4	22.7	23.0	23.2	
35	14.9	16.2	17.2	18.1	18.9	19.5	20.1	20.6	21.1	21.5	21.8	22.1	22.4	22.7	23.0	23.2	
36	14.9	16.2	17.2	18.1	18.9	19.5	20.1	20.6	21.1	21.5	21.8	22.1	22.4	22.7	23.0	23.2	
37	14.9	16.2	17.2	18.1	18.9	19.5	20.1	20.6	21.1	21.5	21.8	22.1	22.4	22.7	23.0	23.2	
38	14.9	16.1	17.2	18.1	18.9	19.5	20.1	20.6	21.1	21.5	21.8	22.1	22.4	22.7	23.0	23.2	
39	14.9	16.1	17.2	18.1	18.9	19.5	20.1	20.6	21.1	21.5	21.8	22.1	22.4	22.7	23.0	23.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.73

FIVE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	26.9	26.1
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.1	27.1	25.8	25.2	24.9	24.8
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.7	26.1	24.9	24.4	24.2	24.2	24.2	24.2	24.2
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	24.1	23.7	23.5	23.5	23.6	23.7	23.8	23.9
20	0.0	0.0	0.0	0.0	0.0	25.5	23.4	22.9	22.8	22.9	23.1	23.2	23.4	23.6	23.7	
21	0.0	0.0	0.0	33.5	22.9	22.1	21.9	22.0	22.2	22.4	22.6	22.8	23.0	23.2	23.4	23.6
22	0.0	0.0	23.5	21.2	20.9	21.0	21.3	21.6	21.8	22.1	22.4	22.7	22.9	23.1	23.3	23.5
23	0.0	20.8	19.8	19.8	20.2	20.5	20.9	21.3	21.6	22.0	22.3	22.5	22.8	23.0	23.3	23.5
24	18.7	18.3	18.7	19.2	19.8	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.7	23.0	23.2	23.4
25	16.8	17.5	18.2	18.9	19.5	20.1	20.6	21.0	21.4	21.8	22.1	22.4	22.7	23.0	23.2	23.4
26	16.0	17.0	17.9	18.7	19.3	19.9	20.5	20.9	21.4	21.7	22.1	22.4	22.7	22.9	23.2	23.4
27	15.7	16.8	17.7	18.5	19.2	19.9	20.4	20.9	21.3	21.7	22.0	22.4	22.7	22.9	23.2	23.4
28	15.4	16.6	17.5	18.4	19.2	19.8	20.4	20.8	21.3	21.7	22.0	22.3	22.6	22.9	23.1	23.4
29	15.3	16.5	17.5	18.4	19.1	19.8	20.3	20.8	21.3	21.7	22.0	22.3	22.6	22.9	23.1	23.4
30	15.2	16.4	17.5	18.3	19.1	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.4
31	15.1	16.4	17.4	18.3	19.1	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.4
32	15.1	16.3	17.4	18.3	19.0	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.3
33	15.0	16.3	17.4	18.3	19.0	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.3
34	15.0	16.3	17.4	18.3	19.0	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.3
35	15.0	16.3	17.3	18.2	19.0	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.3
36	15.0	16.3	17.3	18.2	19.0	19.7	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.3
37	15.0	16.3	17.3	18.2	19.0	19.7	20.2	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.3
38	15.0	16.3	17.3	18.2	19.0	19.7	20.2	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.3
39	15.0	16.3	17.3	18.2	19.0	19.7	20.2	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.1	23.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.74

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY =0.75

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1	28.2	27.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	26.9	26.0	25.5	25.3	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1	25.9	25.1	24.8	24.7	24.6	24.7	
19	0.0	0.0	0.0	0.0	0.0	0.0	27.8	25.1	24.4	24.1	24.0	24.0	24.0	24.1	24.2	24.3	
20	0.0	0.0	0.0	0.0	0.0	30.6	24.6	23.6	23.4	23.3	23.4	23.5	23.6	23.8	23.9	24.1	
21	0.0	0.0	0.0	0.0	24.6	22.9	22.5	22.5	22.6	22.8	23.0	23.2	23.4	23.6	23.8	24.0	
22	0.0	0.0	0.0	22.3	21.6	21.6	21.7	22.0	22.2	22.5	22.8	23.0	23.2	23.5	23.7	23.9	
23	0.0	23.7	20.6	20.4	20.6	20.9	21.3	21.7	22.0	22.3	22.6	22.9	23.1	23.4	23.6	23.8	
24	20.6	19.1	19.2	19.6	20.1	20.6	21.0	21.5	21.8	22.2	22.5	22.8	23.1	23.3	23.6	23.8	
25	17.4	17.9	18.6	19.2	19.8	20.4	20.9	21.3	21.7	22.1	22.4	22.7	23.0	23.3	23.5	23.7	
26	16.5	17.4	18.2	19.0	19.7	20.3	20.8	21.2	21.7	22.0	22.4	22.7	23.0	23.3	23.5	23.7	
27	16.0	17.1	18.0	18.8	19.5	20.2	20.7	21.2	21.6	22.0	22.4	22.7	23.0	23.2	23.5	23.7	
28	15.7	16.9	17.9	18.7	19.5	20.1	20.7	21.1	21.6	22.0	22.3	22.7	22.9	23.2	23.5	23.7	
29	15.5	16.8	17.8	18.7	19.4	20.0	20.6	21.1	21.6	22.0	22.3	22.6	22.9	23.2	23.5	23.7	
30	15.4	16.7	17.7	18.6	19.4	20.0	20.6	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
31	15.3	16.6	17.7	18.6	19.3	20.0	20.6	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
32	15.3	16.6	17.6	18.5	19.3	20.0	20.6	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
33	15.3	16.5	17.6	18.5	19.3	20.0	20.5	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
34	15.2	16.5	17.6	18.5	19.3	20.0	20.5	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
35	15.2	16.5	17.6	18.5	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
36	15.2	16.5	17.6	18.5	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
37	15.2	16.5	17.6	18.5	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
38	15.2	16.5	17.6	18.5	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	
39	15.2	16.5	17.6	18.5	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.76

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1	27.5
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	27.5	26.4	25.9	25.6	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	26.5	25.5	25.1	25.0	24.9	24.9
19	0.0	0.0	0.0	0.0	0.0	0.0	30.1	25.7	24.8	24.4	24.3	24.3	24.3	24.3	24.4	24.5
20	0.0	0.0	0.0	0.0	0.0	0.0	25.3	24.0	23.7	23.6	23.6	23.7	23.8	24.0	24.1	24.3
21	0.0	0.0	0.0	0.0	25.9	23.4	22.8	22.8	22.8	23.0	23.2	23.4	23.6	23.8	24.0	24.1
22	0.0	0.0	0.0	23.0	22.0	21.8	22.0	22.2	22.4	22.7	22.9	23.2	23.4	23.6	23.8	24.0
23	0.0	28.6	21.1	20.7	20.9	21.2	21.5	21.8	22.2	22.5	22.8	23.0	23.3	23.5	23.8	24.0
24	22.5	19.5	19.5	19.9	20.3	20.8	21.2	21.6	22.0	22.4	22.7	23.0	23.2	23.5	23.7	23.9
25	17.8	18.2	18.8	19.4	20.0	20.6	21.0	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	23.9
26	16.7	17.6	18.4	19.2	19.8	20.4	20.9	21.4	21.8	22.2	22.5	22.9	23.1	23.4	23.7	23.9
27	16.2	17.2	18.2	19.0	19.7	20.3	20.9	21.3	21.8	22.2	22.5	22.8	23.1	23.4	23.6	23.9
28	15.9	17.0	18.0	18.9	19.6	20.2	20.8	21.3	21.7	22.1	22.5	22.8	23.1	23.4	23.6	23.8
29	15.7	16.9	17.9	18.8	19.5	20.2	20.8	21.3	21.7	22.1	22.5	22.8	23.1	23.4	23.6	23.8
30	15.5	16.8	17.9	18.7	19.5	20.2	20.7	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.6	23.8
31	15.5	16.7	17.8	18.7	19.5	20.1	20.7	21.2	21.7	22.1	22.4	22.8	23.1	23.3	23.6	23.8
32	15.4	16.7	17.8	18.7	19.4	20.1	20.7	21.2	21.7	22.1	22.4	22.8	23.1	23.3	23.6	23.8
33	15.4	16.7	17.7	18.7	19.4	20.1	20.7	21.2	21.7	22.1	22.4	22.8	23.1	23.3	23.6	23.8
34	15.3	16.6	17.7	18.6	19.4	20.1	20.7	21.2	21.7	22.1	22.4	22.8	23.1	23.3	23.6	23.8
35	15.3	16.6	17.7	18.6	19.4	20.1	20.7	21.2	21.6	22.1	22.4	22.8	23.1	23.3	23.6	23.8
36	15.3	16.6	17.7	18.6	19.4	20.1	20.7	21.2	21.6	22.1	22.4	22.8	23.1	23.3	23.6	23.8
37	15.3	16.6	17.7	18.6	19.4	20.1	20.7	21.2	21.6	22.1	22.4	22.8	23.1	23.3	23.6	23.8
38	15.3	16.6	17.7	18.6	19.4	20.1	20.7	21.2	21.6	22.1	22.4	22.8	23.1	23.3	23.6	23.8
39	15.3	16.6	17.7	18.6	19.4	20.1	20.7	21.2	21.6	22.0	22.4	22.8	23.1	23.3	23.6	23.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.77

FIVE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.8	28.3	26.8	26.2	25.9
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1	27.2	26.0	25.5	25.2	25.1	25.1
19	0.0	0.0	0.0	0.0	0.0	0.0	41.5	26.4	25.2	24.7	24.5	24.5	24.5	24.5	24.6	24.7
20	0.0	0.0	0.0	0.0	0.0	0.0	26.2	24.5	24.0	23.8	23.8	23.9	24.0	24.2	24.3	24.5
21	0.0	0.0	0.0	0.0	28.0	23.9	23.2	23.0	23.1	23.2	23.4	23.6	23.8	23.9	24.1	24.3
22	0.0	0.0	0.0	23.9	22.4	22.1	22.2	22.4	22.6	22.9	23.1	23.4	23.6	23.8	24.0	24.2
23	0.0	0.0	21.8	21.1	21.1	21.4	21.7	22.0	22.3	22.7	22.9	23.2	23.5	23.7	23.9	24.1
24	28.5	20.0	19.8	20.1	20.5	21.0	21.4	21.8	22.2	22.5	22.8	23.1	23.4	23.6	23.9	24.1
25	18.2	18.4	19.0	19.6	20.2	20.7	21.2	21.7	22.1	22.4	22.8	23.1	23.3	23.6	23.8	24.1
26	16.9	17.8	18.6	19.3	20.0	20.6	21.1	21.6	22.0	22.4	22.7	23.0	23.3	23.6	23.8	24.0
27	16.3	17.4	18.3	19.1	19.8	20.5	21.0	21.5	21.9	22.3	22.7	23.0	23.3	23.5	23.8	24.0
28	16.0	17.2	18.2	19.0	19.7	20.4	20.9	21.4	21.9	22.3	22.6	23.0	23.3	23.5	23.8	24.0
29	15.8	17.0	18.1	18.9	19.7	20.3	20.9	21.4	21.9	22.3	22.6	22.9	23.2	23.5	23.8	24.0
30	15.7	16.9	18.0	18.9	19.6	20.3	20.9	21.4	21.8	22.2	22.6	22.9	23.2	23.5	23.8	24.0
31	15.6	16.9	17.9	18.8	19.6	20.3	20.8	21.4	21.8	22.2	22.6	22.9	23.2	23.5	23.8	24.0
32	15.5	16.8	17.9	18.8	19.6	20.2	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.7	24.0
33	15.5	16.8	17.9	18.8	19.6	20.2	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.7	24.0
34	15.4	16.8	17.8	18.8	19.5	20.2	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.7	24.0
35	15.4	16.7	17.8	18.7	19.5	20.2	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.7	24.0
36	15.4	16.7	17.8	18.7	19.5	20.2	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.7	24.0
37	15.4	16.7	17.8	18.7	19.5	20.2	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.7	24.0
38	15.4	16.7	17.8	18.7	19.5	20.2	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.7	24.0
39	15.4	16.7	17.8	18.7	19.5	20.2	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.7	24.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.78

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	28.7
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	27.4	26.6	26.2
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	26.4	25.8	25.5	25.4	25.3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3	25.6	25.0	24.8	24.7	24.8	24.8	24.9
20	0.0	0.0	0.0	0.0	0.0	0.0	27.4	25.0	24.3	24.1	24.1	24.1	24.2	24.4	24.5	24.6
21	0.0	0.0	0.0	0.0	35.7	24.5	23.5	23.3	23.3	23.4	23.6	23.8	23.9	24.1	24.3	24.5
22	0.0	0.0	0.0	25.2	22.8	22.4	22.4	22.6	22.8	23.1	23.3	23.5	23.8	24.0	24.2	24.4
23	0.0	0.0	22.5	21.4	21.4	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.6	23.9	24.1	24.3
24	0.0	20.6	20.1	20.3	20.7	21.2	21.6	22.0	22.3	22.7	23.0	23.3	23.6	23.8	24.0	24.3
25	18.7	18.7	19.2	19.8	20.4	20.9	21.4	21.8	22.2	22.6	22.9	23.2	23.5	23.8	24.0	24.2
26	17.2	18.0	18.8	19.5	20.1	20.7	21.2	21.7	22.1	22.5	22.9	23.2	23.5	23.7	24.0	24.2
27	16.5	17.6	18.5	19.3	20.0	20.6	21.1	21.6	22.1	22.5	22.8	23.1	23.4	23.7	23.9	24.2
28	16.2	17.3	18.3	19.2	19.9	20.5	21.1	21.6	22.0	22.4	22.8	23.1	23.4	23.7	23.9	24.2
29	15.9	17.2	18.2	19.1	19.8	20.5	21.0	21.5	22.0	22.4	22.8	23.1	23.4	23.7	23.9	24.2
30	15.8	17.1	18.1	19.0	19.8	20.4	21.0	21.5	22.0	22.4	22.8	23.1	23.4	23.7	23.9	24.1
31	15.7	17.0	18.1	19.0	19.7	20.4	21.0	21.5	22.0	22.4	22.7	23.1	23.4	23.7	23.9	24.1
32	15.6	16.9	18.0	18.9	19.7	20.4	21.0	21.5	22.0	22.4	22.7	23.1	23.4	23.6	23.9	24.1
33	15.6	16.9	18.0	18.9	19.7	20.4	21.0	21.5	21.9	22.4	22.7	23.1	23.4	23.6	23.9	24.1
34	15.5	16.9	18.0	18.9	19.7	20.4	20.9	21.5	21.9	22.4	22.7	23.1	23.4	23.6	23.9	24.1
35	15.5	16.8	17.9	18.9	19.7	20.3	20.9	21.5	21.9	22.3	22.7	23.1	23.4	23.6	23.9	24.1
36	15.5	16.8	17.9	18.9	19.7	20.3	20.9	21.5	21.9	22.3	22.7	23.1	23.4	23.6	23.9	24.1
37	15.5	16.8	17.9	18.9	19.7	20.3	20.9	21.5	21.9	22.3	22.7	23.1	23.4	23.6	23.9	24.1
38	15.5	16.8	17.9	18.9	19.6	20.3	20.9	21.5	21.9	22.3	22.7	23.1	23.4	23.6	23.9	24.1
39	15.5	16.8	17.9	18.8	19.6	20.3	20.9	21.5	21.9	22.3	22.7	23.1	23.4	23.6	23.9	24.1

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.79

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	19.3	19.0	19.4	20.0	20.5	21.1	21.5	22.0	22.4	22.7	23.1	23.4	23.7	23.9	24.2	24.4
26	17.5	18.2	18.9	19.6	20.3	20.9	21.4	21.9	22.3	22.7	23.0	23.3	23.6	23.9	24.1	24.4
27	16.7	17.7	18.6	19.4	20.1	20.8	21.3	21.8	22.2	22.6	23.0	23.3	23.6	23.9	24.1	24.3
28	16.3	17.5	18.5	19.3	20.0	20.7	21.2	21.7	22.2	22.6	22.9	23.3	23.6	23.8	24.1	24.3
29	16.1	17.3	18.3	19.2	20.0	20.6	21.2	21.7	22.1	22.6	22.9	23.2	23.5	23.8	24.1	24.3
30	15.9	17.2	18.2	19.1	19.9	20.6	21.1	21.7	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.3
31	15.8	17.1	18.2	19.1	19.9	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.3
32	15.7	17.0	18.1	19.1	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.3
33	15.7	17.0	18.1	19.0	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.3
34	15.6	17.0	18.1	19.0	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.3
35	15.6	17.0	18.1	19.0	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.0	24.3
36	15.6	16.9	18.1	19.0	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.0	24.3
37	15.6	16.9	18.0	19.0	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.0	24.3
38	15.6	16.9	18.0	19.0	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.0	24.3
39	15.6	16.9	18.0	19.0	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.0	24.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.80
FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
15	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.3	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	28.6	27.4	26.9	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	27.5	26.5	26.1	25.9	25.8	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	26.7	25.8	25.4	25.2	25.2	25.2	25.3	
20	0.0	0.0	0.0	0.0	0.0	0.0	33.7	26.2	25.0	24.7	24.6	24.6	24.6	24.8	24.9	25.0	
21	0.0	0.0	0.0	0.0	0.0	26.2	24.4	23.9	23.8	23.9	24.0	24.1	24.3	24.5	24.7	24.8	
22	0.0	0.0	0.0	32.8	23.9	23.1	22.9	23.0	23.2	23.4	23.7	23.9	24.1	24.3	24.5	24.7	
23	0.0	0.0	24.9	22.3	21.9	22.1	22.3	22.6	22.9	23.2	23.5	23.7	24.0	24.2	24.4	24.6	
24	0.0	22.2	20.8	20.8	21.1	21.5	21.9	22.3	22.7	23.0	23.3	23.6	23.9	24.1	24.4	24.6	
25	20.0	19.3	19.7	20.2	20.7	21.2	21.7	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.3	24.5	
26	17.7	18.4	19.1	19.8	20.5	21.0	21.5	22.0	22.4	22.8	23.2	23.5	23.8	24.0	24.3	24.5	
27	16.9	17.9	18.8	19.6	20.3	20.9	21.4	21.9	22.4	22.8	23.1	23.4	23.7	24.0	24.3	24.5	
28	16.5	17.6	18.6	19.4	20.2	20.8	21.4	21.9	22.3	22.7	23.1	23.4	23.7	24.0	24.2	24.5	
29	16.2	17.4	18.5	19.3	20.1	20.7	21.3	21.8	22.3	22.7	23.1	23.4	23.7	24.0	24.2	24.5	
30	16.0	17.3	18.4	19.3	20.0	20.7	21.3	21.8	22.3	22.7	23.0	23.4	23.7	24.0	24.2	24.5	
31	15.9	17.2	18.3	19.2	20.0	20.7	21.3	21.8	22.2	22.7	23.0	23.4	23.7	24.0	24.2	24.5	
32	15.8	17.2	18.3	19.2	20.0	20.6	21.2	21.8	22.2	22.7	23.0	23.4	23.7	24.0	24.2	24.4	
33	15.8	17.1	18.2	19.2	19.9	20.6	21.2	21.8	22.2	22.6	23.0	23.4	23.7	23.9	24.2	24.4	
34	15.8	17.1	18.2	19.1	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.4	23.7	23.9	24.2	24.4	
35	15.7	17.1	18.2	19.1	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.4	23.7	23.9	24.2	24.4	
36	15.7	17.1	18.2	19.1	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.3	23.7	23.9	24.2	24.4	
37	15.7	17.0	18.2	19.1	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.3	23.7	23.9	24.2	24.4	
38	15.7	17.0	18.2	19.1	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.3	23.7	23.9	24.2	24.4	
39	15.7	17.0	18.1	19.1	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.3	23.7	23.9	24.2	24.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.81

FIVE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	19.7	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4	26.9
26	18.6	19.3	20.0	20.6	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7
27	18.1	19.0	19.7	20.4	21.0	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.6
28	17.8	18.7	19.6	20.3	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
29	17.6	18.6	19.5	20.2	20.9	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
30	17.4	18.5	19.4	20.2	20.8	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
31	17.3	18.4	19.3	20.1	20.8	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
32	17.3	18.4	19.3	20.1	20.8	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
33	17.2	18.3	19.3	20.1	20.8	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
34	17.2	18.3	19.3	20.1	20.7	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
35	17.2	18.3	19.2	20.0	20.7	21.3	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
36	17.2	18.3	19.2	20.0	20.7	21.3	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
37	17.1	18.3	19.2	20.0	20.7	21.3	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
38	17.1	18.3	19.2	20.0	20.7	21.3	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
39	17.1	18.3	19.2	20.0	20.7	21.3	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.82

FIVE-HARNES WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	22.5	20.1	20.2	20.6	21.1	21.6	22.0	22.5	22.8	23.2	23.5	23.8	24.1	24.4	24.6	24.9
26	18.4	18.9	19.5	20.2	20.8	21.3	21.9	22.3	22.7	23.1	23.5	23.8	24.1	24.3	24.6	24.8
27	17.3	18.3	19.1	19.9	20.6	21.2	21.7	22.2	22.6	23.0	23.4	23.7	24.0	24.3	24.6	24.8
28	16.8	17.9	18.9	19.7	20.5	21.1	21.7	22.2	22.6	23.0	23.4	23.7	24.0	24.3	24.5	24.8
29	16.5	17.7	18.7	19.6	20.4	21.0	21.6	22.1	22.6	23.0	23.4	23.7	24.0	24.3	24.5	24.8
30	16.3	17.6	18.6	19.5	20.3	21.0	21.6	22.1	22.6	23.0	23.3	23.7	24.0	24.3	24.5	24.8
31	16.2	17.5	18.6	19.5	20.3	20.9	21.5	22.1	22.5	22.9	23.3	23.7	24.0	24.3	24.5	24.8
32	16.1	17.4	18.5	19.4	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.7	24.0	24.3	24.5	24.8
33	16.0	17.4	18.5	19.4	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.7	24.0	24.2	24.5	24.7
34	16.0	17.3	18.4	19.4	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.6	24.0	24.2	24.5	24.7
35	15.9	17.3	18.4	19.4	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.6	24.0	24.2	24.5	24.7
36	15.9	17.3	18.4	19.3	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.6	24.0	24.2	24.5	24.7
37	15.9	17.3	18.4	19.3	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.6	24.0	24.2	24.5	24.7
38	15.9	17.2	18.4	19.3	20.1	20.9	21.5	22.0	22.5	22.9	23.3	23.6	23.9	24.2	24.5	24.7
39	15.9	17.2	18.4	19.3	20.1	20.8	21.5	22.0	22.5	22.9	23.3	23.6	23.9	24.2	24.5	24.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.83

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4	28.9	27.9
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	27.9	27.1	26.7	26.5
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	27.1	26.3	26.0	25.9	25.9	25.9
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1	26.4	25.6	25.4	25.3	25.3	25.4	25.5	25.6
21	0.0	0.0	0.0	0.0	0.0	34.8	26.0	24.9	24.4	24.6	24.6	24.7	24.9	25.0	25.2	25.4
22	0.0	0.0	0.0	0.0	0.0	26.5	23.8	23.7	23.8	24.0	24.2	24.4	24.6	24.8	25.0	25.2
23	0.0	0.0	0.0	0.0	24.0	22.9	22.9	23.2	23.4	23.7	24.0	24.2	24.5	24.7	24.9	25.1
24	0.0	34.9	22.2	21.7	21.8	22.1	22.5	22.8	23.2	23.5	23.8	24.1	24.4	24.6	24.8	25.1
25	25.3	20.5	20.5	20.8	21.3	21.7	22.2	22.6	23.0	23.4	23.7	24.0	24.3	24.5	24.8	25.0
26	18.8	19.1	19.7	20.3	20.9	21.5	22.0	22.5	22.9	23.3	23.6	23.9	24.2	24.5	24.7	25.0
27	17.6	18.4	19.3	20.1	20.7	21.3	21.9	22.4	22.8	23.2	23.6	23.9	24.2	24.5	24.7	25.0
28	17.0	18.1	19.0	19.9	20.6	21.2	21.8	22.3	22.8	23.2	23.5	23.9	24.2	24.4	24.7	24.9
29	16.6	17.8	18.9	19.7	20.5	21.2	21.7	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.7	24.9
30	16.4	17.7	18.8	19.7	20.4	21.1	21.7	22.2	22.7	23.1	23.5	23.8	24.1	24.4	24.7	24.9
31	16.3	17.6	18.7	19.6	20.4	21.1	21.7	22.2	22.7	23.1	23.5	23.8	24.1	24.4	24.7	24.9
32	16.2	17.5	18.6	19.6	20.4	21.0	21.6	22.2	22.7	23.1	23.5	23.8	24.1	24.4	24.7	24.9
33	16.1	17.5	18.6	19.5	20.3	21.0	21.6	22.2	22.6	23.1	23.5	23.8	24.1	24.4	24.7	24.9
34	16.1	17.4	18.6	19.5	20.3	21.0	21.6	22.2	22.6	23.1	23.4	23.8	24.1	24.4	24.7	24.9
35	16.0	17.4	18.5	19.5	20.3	21.0	21.6	22.1	22.6	23.1	23.4	23.8	24.1	24.4	24.7	24.9
36	16.0	17.4	18.5	19.5	20.3	21.0	21.6	22.1	22.6	23.1	23.4	23.8	24.1	24.4	24.6	24.9
37	16.0	17.4	18.5	19.5	20.3	21.0	21.6	22.1	22.6	23.0	23.4	23.8	24.1	24.4	24.6	24.9
38	16.0	17.4	18.5	19.5	20.3	21.0	21.6	22.1	22.6	23.0	23.4	23.8	24.1	24.4	24.6	24.9
39	16.0	17.3	18.5	19.4	20.3	21.0	21.6	22.1	22.6	23.0	23.4	23.8	24.1	24.4	24.6	24.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.84

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.2	29.5	28.4	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	28.4	27.5	27.0	26.8	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.3	27.5	26.7	26.3	26.2	26.1	26.1	
20	0.0	0.0	0.0	0.0	0.0	0.0	31.1	27.0	26.0	25.6	25.5	25.5	25.5	25.6	25.6	25.8	
21	0.0	0.0	0.0	0.0	0.0	0.0	26.7	25.3	24.9	24.8	24.8	24.9	25.1	25.2	25.4	25.5	
22	0.0	0.0	0.0	0.0	28.1	24.8	24.1	24.0	24.1	24.2	24.4	24.6	24.8	25.0	25.2	25.4	
23	0.0	0.0	0.0	24.8	23.3	23.1	23.2	23.4	23.6	23.9	24.1	24.4	24.6	24.9	25.1	25.3	
24	0.0	0.0	22.8	22.0	22.1	22.3	22.7	23.0	23.3	23.7	24.0	24.3	24.5	24.8	25.0	25.2	
25	0.0	21.0	20.7	21.0	21.5	21.9	22.4	22.8	23.2	23.5	23.9	24.2	24.4	24.7	24.9	25.2	
26	19.3	19.4	19.9	20.5	21.1	21.7	22.2	22.6	23.0	23.4	23.8	24.1	24.4	24.7	24.9	25.1	
27	17.8	18.6	19.5	20.2	20.9	21.5	22.0	22.5	23.0	23.4	23.7	24.0	24.3	24.6	24.9	25.1	
28	17.2	18.2	19.2	20.0	20.7	21.4	21.9	22.5	22.9	23.3	23.7	24.0	24.3	24.6	24.9	25.1	
29	16.8	18.0	19.0	19.9	20.6	21.3	21.9	22.4	22.9	23.3	23.7	24.0	24.3	24.6	24.8	25.1	
30	16.6	17.8	18.9	19.8	20.6	21.2	21.8	22.4	22.8	23.3	23.6	24.0	24.3	24.6	24.8	25.1	
31	16.4	17.7	18.8	19.7	20.5	21.2	21.8	22.3	22.8	23.2	23.6	24.0	24.3	24.6	24.8	25.1	
32	16.3	17.6	18.7	19.7	20.5	21.2	21.8	22.3	22.8	23.2	23.6	23.9	24.3	24.5	24.8	25.1	
33	16.2	17.6	18.7	19.6	20.5	21.2	21.8	22.3	22.8	23.2	23.6	23.9	24.3	24.5	24.8	25.0	
34	16.2	17.5	18.7	19.6	20.4	21.1	21.8	22.3	22.8	23.2	23.6	23.9	24.3	24.5	24.8	25.0	
35	16.1	17.5	18.6	19.6	20.4	21.1	21.7	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	25.0	
36	16.1	17.5	18.6	19.6	20.4	21.1	21.7	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	25.0	
37	16.1	17.5	18.6	19.6	20.4	21.1	21.7	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	25.0	
38	16.1	17.5	18.6	19.6	20.4	21.1	21.7	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	25.0	
39	16.1	17.5	18.6	19.6	20.4	21.1	21.7	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	25.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.85

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.7	30.2	28.8
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.8	29.0	27.9	27.3	27.1
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.2	28.1	27.1	26.6	26.4	26.3	26.3
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.7	27.6	26.4	25.9	25.9	25.7	25.8	25.8	25.9
21	0.0	0.0	0.0	0.0	0.0	0.0	27.6	25.7	25.2	25.0	25.1	25.1	25.3	25.4	25.5	25.7
22	0.0	0.0	0.0	0.0	31.2	25.3	24.5	24.3	24.3	24.4	24.6	24.8	25.0	25.2	25.4	25.5
23	0.0	0.0	0.0	26.0	23.7	23.4	23.4	23.6	23.8	24.1	24.3	24.6	24.8	25.0	25.2	25.4
24	0.0	0.0	23.6	22.4	22.3	22.5	22.9	23.2	23.5	23.8	24.1	24.4	24.7	24.9	25.2	25.4
25	0.0	21.6	21.1	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.0	24.3	24.6	24.9	25.1	25.3
26	19.8	19.6	20.1	20.7	21.3	21.8	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	25.1	25.3
27	18.1	18.8	19.6	20.4	21.0	21.6	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	25.0	25.3
28	17.3	18.4	19.3	20.2	20.9	21.5	22.1	22.6	23.0	23.5	23.8	24.2	24.5	24.7	25.0	25.2
29	16.9	18.1	19.1	20.0	20.8	21.4	22.0	22.5	23.0	23.4	23.8	24.1	24.4	24.7	25.0	25.2
30	16.7	18.0	19.0	19.9	20.7	21.4	22.0	22.5	23.0	23.4	23.8	24.1	24.4	24.7	25.0	25.2
31	16.5	17.8	18.9	19.9	20.6	21.3	21.9	22.5	22.9	23.4	23.8	24.1	24.4	24.7	25.0	25.2
32	16.4	17.8	18.9	19.8	20.6	21.3	21.9	22.5	22.9	23.4	23.7	24.1	24.4	24.7	25.0	25.2
33	16.3	17.7	18.8	19.8	20.6	21.3	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	25.0	25.2
34	16.3	17.6	18.8	19.7	20.6	21.3	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	25.0	25.2
35	16.2	17.6	18.8	19.7	20.5	21.3	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	24.9	25.2
36	16.2	17.6	18.7	19.7	20.5	21.2	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	24.9	25.2
37	16.2	17.6	18.7	19.7	20.5	21.2	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	24.9	25.2
38	16.2	17.6	18.7	19.7	20.5	21.2	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	24.9	25.2
39	15.2	17.6	18.7	19.7	20.5	21.2	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	24.9	25.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.86

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.1	29.3
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6	29.7	28.3	27.7	27.3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.3	28.8	27.5	26.9	26.7	26.6	26.6
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4	26.8	26.2	26.0	26.0	26.0	26.0	26.1
21	0.0	0.0	0.0	0.0	0.0	0.0	28.8	26.2	25.5	25.3	25.3	25.3	25.4	25.6	25.7	25.9
22	0.0	0.0	0.0	0.0	0.0	25.9	24.8	24.5	24.5	24.6	24.8	25.0	25.2	25.3	25.5	25.7
23	0.0	0.0	0.0	27.6	24.2	23.7	23.6	23.8	24.0	24.2	24.5	24.7	25.0	25.2	25.4	25.6
24	0.0	0.0	24.5	22.8	22.6	22.8	23.0	23.4	23.7	24.0	24.3	24.6	24.8	25.1	25.3	25.5
25	0.0	22.4	21.4	21.5	21.9	22.3	22.7	23.1	23.5	23.8	24.2	24.5	24.7	25.0	25.3	25.5
26	20.4	19.9	20.3	20.9	21.5	22.0	22.5	22.9	23.4	23.7	24.1	24.4	24.7	25.0	25.2	25.4
27	18.4	19.0	19.8	20.5	21.2	21.8	22.3	22.8	23.3	23.7	24.0	24.3	24.6	24.9	25.2	25.4
28	17.5	18.6	19.5	20.3	21.0	21.7	22.2	22.7	23.2	23.6	24.0	24.3	24.6	24.9	25.2	25.4
29	17.1	18.3	19.3	20.2	20.9	21.6	22.2	22.7	23.1	23.6	23.9	24.3	24.6	24.9	25.1	25.4
30	16.3	18.1	19.1	20.1	20.8	21.5	22.1	22.6	23.1	23.5	23.9	24.3	24.6	24.9	25.1	25.4
31	16.6	18.0	19.1	20.0	20.8	21.5	22.1	22.6	23.1	23.5	23.9	24.2	24.6	24.8	25.1	25.4
32	16.5	17.9	19.0	19.9	20.7	21.4	22.0	22.6	23.1	23.5	23.9	24.2	24.6	24.8	25.1	25.4
33	16.4	17.8	18.9	19.9	20.7	21.4	22.0	22.6	23.1	23.5	23.9	24.2	24.5	24.8	25.1	25.3
34	16.4	17.8	18.9	19.9	20.7	21.4	22.0	22.6	23.0	23.5	23.9	24.2	24.5	24.8	25.1	25.3
35	16.3	17.7	18.9	19.8	20.7	21.4	22.0	22.6	23.0	23.5	23.9	24.2	24.5	24.8	25.1	25.3
36	16.3	17.7	18.9	19.8	20.7	21.4	22.0	22.5	23.0	23.5	23.9	24.2	24.5	24.8	25.1	25.3
37	16.3	17.7	18.9	19.8	20.6	21.4	22.0	22.5	23.0	23.5	23.9	24.2	24.5	24.8	25.1	25.3
38	16.3	17.7	18.8	19.8	20.6	21.4	22.0	22.5	23.0	23.5	23.9	24.2	24.5	24.8	25.1	25.3
39	16.3	17.7	18.8	19.8	20.6	21.4	22.0	22.5	23.0	23.5	23.9	24.2	24.5	24.8	25.1	25.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WAPP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.87

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.2	29.8	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	28.7	28.0	27.6	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6	27.9	27.3	26.9	26.8	26.8	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	27.2	26.6	26.3	26.2	26.2	26.2	26.3	
21	0.0	0.0	0.0	0.0	0.0	0.0	30.5	26.7	25.9	25.6	25.5	25.5	25.6	25.8	25.9	26.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	26.7	25.2	24.8	24.8	25.0	25.1	25.3	25.5	25.7	25.9	
23	0.0	0.0	0.0	30.7	24.7	24.0	23.9	24.0	24.2	24.4	24.7	24.9	25.1	25.4	25.6	25.8	
24	0.0	0.0	25.8	23.2	22.9	23.0	23.2	23.5	23.9	24.2	24.5	24.7	25.0	25.2	25.5	25.7	
25	0.0	23.3	21.7	21.8	22.1	22.5	22.9	23.3	23.6	24.0	24.3	24.6	24.9	25.2	25.4	25.6	
26	21.2	20.3	20.6	21.1	21.6	22.2	22.6	23.1	23.5	23.9	24.2	24.5	24.8	25.1	25.4	25.6	
27	18.7	19.3	20.0	20.7	21.4	21.9	22.5	23.0	23.4	23.8	24.2	24.5	24.8	25.1	25.3	25.6	
28	17.7	18.7	19.6	20.5	21.2	21.8	22.4	22.9	23.3	23.7	24.1	24.5	24.8	25.0	25.3	25.5	
29	17.2	18.4	19.4	20.3	21.1	21.7	22.3	22.8	23.3	23.7	24.1	24.4	24.7	25.0	25.3	25.5	
30	17.0	18.2	19.3	20.2	21.0	21.7	22.2	22.8	23.3	23.7	24.1	24.4	24.7	25.0	25.3	25.5	
31	16.8	18.1	19.2	20.1	20.9	21.6	22.2	22.7	23.2	23.7	24.0	24.4	24.7	25.0	25.3	25.5	
32	16.6	18.0	19.1	20.1	20.9	21.6	22.2	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	25.5	
33	16.6	17.9	19.1	20.0	20.8	21.5	22.2	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.2	25.5	
34	16.5	17.9	19.0	20.0	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.2	25.5	
35	16.4	17.8	19.0	20.0	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.2	25.5	
36	16.4	17.8	19.0	19.9	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.2	25.5	
37	16.4	17.8	19.0	19.9	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.3	24.7	25.0	25.2	25.5	
38	16.4	17.8	18.9	19.9	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.3	24.7	25.0	25.2	25.5	
39	16.4	17.8	18.9	19.9	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.3	24.7	25.0	25.2	25.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = C.88

FIVE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.8	30.4
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	29.2	28.4	27.9
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.6	28.4	27.6	27.2	27.1	27.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.6	27.7	26.9	26.5	26.4	26.4	26.4	26.5
21	0.0	0.0	0.0	0.0	0.0	0.0	34.0	27.3	26.2	25.8	25.7	25.8	25.8	26.0	26.1	26.2
22	0.0	0.0	0.0	0.0	0.0	27.7	25.6	25.1	25.0	25.0	25.2	25.3	25.5	25.7	25.9	26.0
23	0.0	0.0	0.0	0.0	25.3	24.3	24.1	24.2	24.4	24.6	24.8	25.1	25.3	25.5	25.7	25.9
24	0.0	0.0	23.0	23.6	23.2	23.2	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.4	25.6	25.8
25	0.0	24.6	22.1	22.0	22.3	22.7	23.0	23.4	23.8	24.2	24.5	24.8	25.1	25.3	25.6	25.9
26	22.3	20.6	20.8	21.3	21.8	22.3	22.8	23.2	23.7	24.0	24.4	24.7	25.0	25.3	25.5	25.7
27	19.0	19.5	20.2	20.9	21.5	22.1	22.6	23.1	23.6	23.9	24.3	24.6	24.9	25.2	25.5	25.7
28	17.9	18.9	19.8	20.6	21.3	22.0	22.5	23.0	23.5	23.9	24.3	24.6	24.9	25.2	25.5	25.7
29	17.4	18.6	19.6	20.4	21.2	21.9	22.4	23.0	23.4	23.8	24.2	24.6	24.9	25.2	25.4	25.7
30	17.1	18.4	19.4	20.3	21.1	21.8	22.4	22.9	23.4	23.8	24.2	24.5	24.9	25.2	25.4	25.7
31	16.9	18.2	19.3	20.2	21.0	21.7	22.3	22.9	23.4	23.8	24.2	24.5	24.9	25.1	25.4	25.7
32	16.8	18.1	19.2	20.2	21.0	21.7	22.3	22.9	23.3	23.8	24.2	24.5	24.8	25.1	25.4	25.6
33	16.7	18.0	19.2	20.1	21.0	21.7	22.3	22.8	23.3	23.8	24.2	24.5	24.8	25.1	25.4	25.6
34	16.6	18.0	19.1	20.1	20.9	21.6	22.3	22.8	23.3	23.8	24.1	24.5	24.8	25.1	25.4	25.6
35	16.5	17.9	19.1	20.1	20.9	21.6	22.3	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	25.6
36	16.5	17.9	19.1	20.1	20.9	21.6	22.3	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	25.6
37	16.5	17.9	19.1	20.0	20.9	21.6	22.2	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	25.6
38	16.5	17.9	19.1	20.0	20.9	21.6	22.2	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	25.6
39	16.5	17.9	19.0	20.0	20.9	21.6	22.2	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	25.6

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.89

FIVE-HARNESS WEAVE FABRICS



WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4	31.1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0	29.8	28.7	28.2
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	28.9	28.0	27.5	27.3	27.2
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	28.3	27.2	26.8	26.7	26.6	26.6	26.6	26.7
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	26.6	26.1	26.0	26.0	26.0	26.1	26.3	26.4
22	0.0	0.0	0.0	0.0	0.0	28.9	26.1	25.4	25.2	25.3	25.4	25.5	25.7	25.9	26.0	26.2
23	0.0	0.0	0.0	0.0	26.0	24.7	24.4	24.4	24.6	24.8	25.0	25.2	25.5	25.7	25.9	26.1
24	0.0	0.0	34.8	24.2	23.5	23.5	23.6	23.9	24.2	24.5	24.9	25.1	25.3	25.6	25.8	26.0
25	0.0	26.4	22.6	22.3	22.5	22.4	22.2	23.6	24.0	24.3	24.6	24.9	25.2	25.5	25.7	25.9
26	24.0	21.0	21.1	21.5	22.0	22.5	23.0	23.4	23.8	24.2	24.5	24.8	25.1	25.4	25.7	25.9
27	19.3	19.7	20.4	21.0	21.7	22.3	22.8	23.3	23.7	24.1	24.5	24.9	25.1	25.4	25.5	25.9
28	18.2	19.1	20.0	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.1	25.3	25.6	25.8
29	17.6	18.7	19.7	20.6	21.3	22.0	22.6	23.1	23.6	24.0	24.4	24.7	25.0	25.3	25.6	25.8
30	17.2	18.5	19.5	20.5	21.2	21.9	22.5	23.1	23.5	24.0	24.3	24.7	25.0	25.3	25.6	25.8
31	17.0	18.3	19.4	20.4	21.2	21.9	22.5	23.0	23.5	23.9	24.3	24.7	25.0	25.3	25.6	25.8
32	16.9	18.2	19.3	20.3	21.1	21.8	22.4	23.0	23.5	23.9	24.3	24.7	25.0	25.3	25.5	25.8
33	16.8	18.1	19.3	20.3	21.1	21.8	22.4	23.0	23.5	23.9	24.3	24.6	25.0	25.3	25.5	25.8
34	16.7	18.1	19.2	20.2	21.1	21.8	22.4	23.0	23.4	23.9	24.3	24.6	25.0	25.3	25.5	25.8
35	16.6	18.1	19.2	20.2	21.0	21.8	22.4	22.9	23.4	23.9	24.3	24.6	25.0	25.3	25.5	25.8
36	16.6	18.0	19.2	20.2	21.0	21.7	22.4	22.9	23.4	23.9	24.3	24.6	25.0	25.3	25.5	25.8
37	16.6	18.0	19.2	20.2	21.0	21.7	22.4	22.9	23.4	23.9	24.3	24.6	25.0	25.3	25.5	25.8
38	16.6	18.0	19.2	20.2	21.0	21.7	22.4	22.9	23.4	23.9	24.3	24.6	25.0	25.3	25.5	25.8
39	16.5	18.0	19.2	20.1	21.0	21.7	22.4	22.9	23.4	23.9	24.3	24.6	25.0	25.3	25.5	25.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.90

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	RETA														
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.91

FIVE-HARNESS WEAVE FABRICS



WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.92

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	30.0	29.2	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	29.2	28.4	28.1	27.9	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.6	28.5	27.7	27.4	27.3	27.3	27.3	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4	28.0	27.1	26.7	26.6	26.7	26.7	26.8	26.9	
22	0.0	0.0	0.0	0.0	0.0	0.0	27.9	26.5	26.0	25.9	26.0	26.1	26.2	26.4	26.5	26.7	
23	0.0	0.0	0.0	0.0	29.8	26.0	25.3	25.1	25.2	25.4	25.5	25.7	26.0	26.2	26.4	26.6	
24	0.0	0.0	0.0	26.5	24.5	24.2	24.3	24.5	24.7	25.0	25.3	25.5	25.8	26.0	26.3	26.5	
25	0.0	0.0	24.4	23.2	23.2	23.4	23.8	24.1	24.5	24.8	25.1	25.4	25.7	25.9	26.2	26.4	
26	0.0	22.6	21.9	22.1	22.5	23.0	23.4	23.9	24.3	24.6	25.0	25.3	25.6	25.9	26.1	26.3	
27	20.8	20.5	21.0	21.6	22.2	22.7	23.2	23.7	24.1	24.5	24.9	25.2	25.5	25.8	26.1	26.3	
28	18.9	19.7	20.5	21.2	21.9	22.5	23.1	23.6	24.1	24.5	24.8	25.2	25.5	25.8	26.0	26.3	
29	18.1	19.2	20.1	21.0	21.7	22.4	23.0	23.5	24.0	24.4	24.8	25.1	25.5	25.7	26.0	26.3	
30	17.7	18.9	19.9	20.8	21.6	22.3	22.9	23.5	23.9	24.4	24.8	25.1	25.4	25.7	26.0	26.2	
31	17.4	18.7	19.8	20.7	21.6	22.3	22.9	23.4	23.9	24.3	24.7	25.1	25.4	25.7	26.0	26.2	
32	17.2	18.6	19.7	20.7	21.5	22.2	22.8	23.4	23.9	24.3	24.7	25.1	25.4	25.7	26.0	26.2	
33	17.1	18.5	19.6	20.6	21.5	22.2	22.8	23.4	23.9	24.3	24.7	25.1	25.4	25.7	26.0	26.2	
34	17.0	18.4	19.6	20.6	21.4	22.1	22.8	23.3	23.8	24.3	24.7	25.1	25.4	25.7	26.0	26.2	
35	17.0	18.4	19.6	20.5	21.4	22.1	22.8	23.3	23.8	24.3	24.7	25.1	25.4	25.7	26.0	26.2	
36	16.9	18.3	19.5	20.5	21.4	22.1	22.8	23.3	23.8	24.3	24.7	25.0	25.4	25.7	26.0	26.2	
37	16.9	18.3	19.5	20.5	21.4	22.1	22.8	23.3	23.8	24.3	24.7	25.0	25.4	25.7	26.0	26.2	
38	16.9	18.3	19.5	20.5	21.4	22.1	22.7	23.3	23.8	24.3	24.7	25.0	25.4	25.7	26.0	26.2	
39	16.8	18.3	19.5	20.5	21.3	22.1	22.7	23.3	23.8	24.3	24.7	25.0	25.4	25.7	26.0	26.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.93

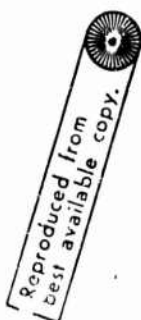
FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR {K1}	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.2	30.6	29.6
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	29.7	28.8	28.4	28.4	28.2
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8	29.0	28.1	27.7	27.5	27.5	27.5
21	0.0	0.0	0.0	0.0	0.0	0.0	33.7	28.5	27.4	27.0	26.9	26.9	26.9	26.9	27.0	27.1
22	0.0	0.0	0.0	0.0	0.0	0.0	28.7	26.9	26.3	26.2	26.2	26.3	26.4	26.6	26.7	26.9
23	0.0	0.0	0.0	0.0	33.0	26.5	25.6	25.4	25.4	25.5	25.7	25.9	26.1	26.3	26.5	26.7
24	0.0	0.0	0.0	27.7	25.0	24.5	24.5	24.7	24.9	25.2	25.4	25.7	25.9	26.2	26.4	26.6
25	0.0	0.0	25.2	23.6	23.4	23.6	23.9	24.3	24.6	24.9	25.3	25.5	25.8	26.1	26.3	26.5
26	0.0	23.3	22.2	22.4	22.7	23.2	23.6	24.0	24.4	24.8	25.1	25.4	25.7	26.0	26.3	26.5
27	21.4	20.8	21.2	21.7	22.3	22.9	23.4	23.9	24.3	24.7	25.0	25.4	25.7	26.0	26.2	26.5
28	19.2	19.9	20.6	21.4	22.1	22.7	23.2	23.7	24.2	24.6	25.0	25.3	25.6	25.9	26.2	26.4
29	18.3	19.3	20.3	21.1	21.9	22.5	23.1	23.7	24.1	24.5	24.9	25.3	25.6	25.9	26.2	26.4
30	17.9	19.0	20.1	21.0	21.8	22.5	23.1	23.6	24.1	24.5	24.9	25.3	25.6	25.9	26.1	26.4
31	17.5	18.8	19.9	20.9	21.7	22.4	23.0	23.6	24.0	24.5	24.9	25.2	25.6	25.9	26.1	26.4
32	17.3	18.7	19.8	20.8	21.6	22.3	23.0	23.5	24.0	24.5	24.9	25.2	25.5	25.8	26.1	26.4
33	17.2	18.6	19.8	20.7	21.6	22.3	22.9	23.5	24.0	24.4	24.8	25.2	25.5	25.8	26.1	26.4
34	17.1	18.5	19.7	20.7	21.5	22.3	22.9	23.5	24.0	24.4	24.8	25.2	25.5	25.8	26.1	26.4
35	17.1	18.5	19.7	20.7	21.5	22.3	22.9	23.5	24.0	24.4	24.8	25.2	25.5	25.8	26.1	26.4
36	17.0	18.4	19.6	20.6	21.5	22.2	22.9	23.5	24.0	24.4	24.8	25.2	25.5	25.8	26.1	26.4
37	17.0	18.4	19.6	20.6	21.5	22.2	22.9	23.4	24.0	24.4	24.8	25.2	25.5	25.8	26.1	26.4
38	16.9	18.4	19.6	20.6	21.5	22.2	22.9	23.4	23.9	24.4	24.8	25.2	25.5	25.8	26.1	26.3
39	16.9	18.4	19.6	20.6	21.5	22.2	22.9	23.4	23.9	24.4	24.8	25.2	25.5	25.8	26.1	26.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.94

FIVE-HARNESS WEAVE FABRICS



WARP
COVER
FACTOR
(K1)

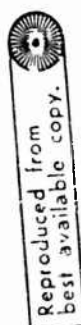
BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.95

FIVE-HARNESS WEAVE FABRICS



WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	31.8
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4	30.8	29.5	28.9	28.6
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5	30.1	28.8	28.3	28.0	27.9	27.9
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2	27.6	27.4	27.3	27.3	27.4	27.5
22	0.0	0.0	0.0	0.0	0.0	0.0	31.1	27.8	26.9	26.7	26.6	26.7	26.8	26.9	27.1	27.2
23	0.0	0.0	0.0	0.0	0.0	27.8	26.3	25.9	25.9	25.9	26.1	26.3	26.5	26.7	26.9	27.0
24	0.0	0.0	0.0	33.7	25.9	25.1	25.0	25.1	25.3	25.5	25.8	26.0	26.3	26.5	26.7	26.9
25	0.0	0.0	23.0	24.4	24.0	24.1	24.3	24.6	24.9	25.3	25.6	25.9	26.1	26.4	26.6	26.8
26	0.0	25.3	23.0	22.9	23.1	23.5	23.9	24.3	24.7	25.1	25.4	25.7	26.0	26.3	26.5	26.8
27	23.3	21.5	21.6	22.1	22.7	23.2	23.7	24.2	24.6	25.0	25.3	25.7	26.0	26.2	26.5	26.7
28	19.8	20.3	21.0	21.7	22.4	23.0	23.5	24.0	24.5	24.9	25.3	25.6	25.9	26.2	26.5	26.7
29	18.7	19.7	20.6	21.4	22.2	22.8	23.4	23.9	24.4	24.8	25.2	25.6	25.9	26.2	26.4	26.7
30	18.1	19.3	20.4	21.3	22.0	22.7	23.3	23.9	24.3	24.8	25.2	25.5	25.9	26.2	26.4	26.7
31	17.8	19.1	20.2	21.1	21.9	22.6	23.3	23.8	24.3	24.7	25.1	25.5	25.8	26.1	26.4	26.7
32	17.6	18.9	20.1	21.0	21.9	22.6	23.2	23.8	24.3	24.7	25.1	25.5	25.8	26.1	26.4	26.7
33	17.4	18.8	20.0	21.0	21.8	22.6	23.2	23.8	24.3	24.7	25.1	25.5	25.8	26.1	26.4	26.6
34	17.3	18.8	19.9	20.9	21.8	22.5	23.2	23.7	24.2	24.7	25.1	25.5	25.8	26.1	26.4	26.5
35	17.3	18.7	19.9	20.9	21.8	22.5	23.1	23.7	24.2	24.7	25.1	25.5	25.8	26.1	26.4	26.6
36	17.2	18.7	19.9	20.9	21.7	22.5	23.1	23.7	24.2	24.7	25.1	25.5	25.8	26.1	26.4	26.6
37	17.2	18.6	19.8	20.9	21.7	22.5	23.1	23.7	24.2	24.7	25.1	25.4	25.8	26.1	26.4	26.6
38	17.1	18.6	19.8	20.8	21.7	22.5	23.1	23.7	24.2	24.7	25.1	25.4	25.8	26.1	26.4	26.6
39	17.1	18.6	19.8	20.8	21.7	22.5	23.1	23.7	24.2	24.7	25.1	25.4	25.8	26.1	26.4	26.6

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.96

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6	30.8
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	31.5	29.9	29.3	28.9
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	29.2	28.6	28.3	28.1	28.1
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	28.6	27.9	27.6	27.5	27.5	27.6	27.6
22	0.0	0.0	0.0	0.0	0.0	0.0	33.3	28.3	27.3	26.9	26.8	26.9	27.0	27.1	27.2	27.4
23	0.0	0.0	0.0	0.0	0.0	28.7	26.7	26.2	26.1	26.1	26.3	26.4	26.6	26.8	27.0	27.2
24	0.0	0.0	0.0	0.0	26.5	25.4	25.2	25.3	25.5	25.7	25.9	26.2	26.4	26.7	26.9	27.1
25	0.0	0.0	31.1	24.9	24.3	24.3	24.5	24.8	25.1	25.4	25.7	26.0	26.3	26.5	26.8	27.0
26	0.0	27.2	23.4	23.1	23.3	23.7	24.1	24.5	24.9	25.2	25.6	25.9	26.2	26.5	26.7	26.9
27	24.9	21.8	21.9	22.3	22.8	23.4	23.8	24.3	24.7	25.1	25.5	25.8	26.1	26.4	26.7	26.9
28	20.2	20.5	21.2	21.9	22.5	23.1	23.7	24.2	24.6	25.0	25.4	25.7	26.1	26.3	26.6	26.9
29	18.9	19.9	20.8	21.6	22.3	23.0	23.5	24.1	24.5	25.0	25.4	25.7	26.0	26.3	26.6	26.8
30	18.3	19.5	20.5	21.4	22.2	22.9	23.5	24.0	24.5	24.9	25.3	25.7	26.0	26.3	26.6	26.8
31	17.9	19.2	20.3	21.3	22.1	22.8	23.4	23.9	24.4	24.9	25.3	25.6	26.0	26.3	26.6	26.8
32	17.7	19.1	20.2	21.2	22.0	22.7	23.4	23.9	24.4	24.9	25.3	25.6	26.0	26.3	26.5	26.8
33	17.6	18.9	20.1	21.1	21.9	22.7	23.3	23.9	24.4	24.8	25.2	25.6	25.9	26.3	26.5	26.8
34	17.4	18.9	20.0	21.0	21.9	22.6	23.3	23.9	24.4	24.8	25.2	25.6	25.9	26.2	26.5	26.8
35	17.4	18.8	20.0	21.0	21.9	22.6	23.3	23.8	24.4	24.8	25.2	25.6	25.9	26.2	26.5	26.8
36	17.3	18.8	20.0	21.0	21.9	22.6	23.3	23.8	24.3	24.8	25.2	25.6	25.9	26.2	26.5	26.8
37	17.3	18.7	19.9	21.0	21.8	22.6	23.2	23.8	24.3	24.8	25.2	25.6	25.9	26.2	26.5	26.8
38	17.2	18.7	19.9	20.9	21.8	22.6	23.2	23.8	24.3	24.8	25.2	25.6	25.9	26.2	26.5	26.8
39	17.2	18.7	19.9	20.9	21.8	22.6	23.2	23.8	24.3	24.8	25.2	25.6	25.9	26.2	26.5	26.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.97

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	31.3	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	30.4	29.6	29.2	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	29.7	28.9	28.5	28.4	28.3	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	29.1	28.2	27.9	27.7	27.7	27.8	27.8	
22	0.0	0.0	0.0	0.0	0.0	0.0	39.3	38.9	37.6	27.2	27.1	27.1	27.2	27.3	27.4	27.5	
23	0.0	0.0	0.0	0.0	0.0	29.4	27.1	26.5	26.3	26.3	26.5	26.6	26.8	27.0	27.2	27.4	
24	0.0	0.0	0.0	0.0	27.2	25.8	25.5	25.5	25.7	25.9	26.1	26.3	26.6	26.8	27.0	27.2	
25	0.0	0.0	0.0	25.4	24.6	24.5	24.7	25.0	25.3	25.6	25.9	26.2	26.4	26.7	26.9	27.1	
26	0.0	31.3	23.8	23.4	23.6	23.9	24.3	24.7	25.0	25.4	25.7	26.0	26.3	26.6	26.8	27.1	
27	28.2	22.3	22.1	22.5	23.0	23.5	24.0	24.5	24.9	25.3	25.6	26.0	26.3	26.5	26.8	27.0	
28	20.6	20.8	21.4	22.0	22.7	23.3	23.8	24.3	24.8	25.2	25.5	25.9	26.2	26.5	26.8	27.0	
29	19.2	20.0	20.9	21.7	22.5	23.1	23.7	24.2	24.7	25.1	25.5	25.8	26.2	26.5	26.7	27.0	
30	18.5	19.6	20.6	21.5	22.3	23.0	23.6	24.1	24.6	25.1	25.4	25.8	26.1	26.4	26.7	27.0	
31	18.1	19.4	20.5	21.4	22.2	22.9	23.5	24.1	24.6	25.0	25.4	25.8	26.1	26.4	26.7	26.9	
32	17.8	19.2	20.3	21.3	22.1	22.8	23.5	24.0	24.5	25.0	25.4	25.8	26.1	26.4	26.7	26.9	
33	17.7	19.1	20.2	21.2	22.1	22.8	23.4	24.0	24.5	25.0	25.4	25.7	26.1	26.4	26.7	26.9	
34	17.5	19.0	20.2	21.2	22.0	22.8	23.4	24.0	24.5	25.0	25.4	25.7	26.1	26.4	26.7	26.9	
35	17.5	18.9	20.1	21.1	22.0	22.7	23.4	24.0	24.5	24.9	25.4	25.7	26.1	26.4	26.7	26.9	
36	17.4	18.9	20.1	21.1	22.0	22.7	23.4	24.0	24.5	24.9	25.3	25.7	26.1	26.4	26.7	26.9	
37	17.4	18.8	20.0	21.1	22.0	22.7	23.4	24.0	24.5	24.9	25.3	25.7	26.1	26.4	26.7	26.9	
38	17.3	18.8	20.0	21.1	21.9	22.7	23.4	23.9	24.5	24.9	25.3	25.7	26.1	26.4	26.6	26.9	
39	17.3	18.8	20.0	21.0	21.9	22.7	23.4	23.9	24.5	24.9	25.3	25.7	26.1	26.4	26.6	26.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.98

FIVE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

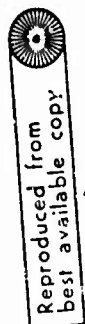
BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	31.8
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	30.8	29.9	29.5
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.8	30.1	29.2	28.8	28.6	28.5
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.8	29.6	28.6	28.1	28.0	27.9	27.9	28.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6	28.0	27.5	27.3	27.3	27.3	27.4	27.6	27.7
23	0.0	0.0	0.0	0.0	0.0	31.5	27.6	26.8	26.6	26.6	26.7	26.8	27.0	27.2	27.3	27.5
24	0.0	0.0	0.0	0.0	28.1	26.2	25.8	25.7	25.9	26.1	26.3	26.5	26.7	27.0	27.2	27.4
25	0.0	0.0	0.0	26.1	24.9	24.8	24.9	25.2	25.5	25.7	26.0	26.3	26.6	26.8	27.1	27.3
26	0.0	0.0	24.4	23.7	23.8	24.1	24.4	24.8	25.2	25.5	25.9	26.2	26.5	26.7	27.0	27.2
27	0.0	22.7	22.4	22.7	23.2	23.7	24.2	24.6	25.0	25.4	25.8	26.1	26.4	26.7	26.9	27.2
28	21.0	21.0	21.6	22.2	22.8	23.4	24.0	24.5	24.9	25.3	25.7	26.0	26.3	26.6	26.9	27.1
29	19.4	20.2	21.1	21.9	22.6	23.2	23.8	24.3	24.8	25.2	25.6	26.0	26.3	26.6	26.9	27.1
30	18.7	19.8	20.8	21.7	22.4	23.1	23.7	24.3	24.8	25.2	25.6	25.9	26.3	26.6	26.8	27.1
31	18.2	19.5	20.6	21.5	22.3	23.0	23.7	24.2	24.7	25.2	25.6	25.9	26.2	26.6	26.8	27.1
32	18.0	19.3	20.4	21.4	22.2	23.0	23.6	24.2	24.7	25.1	25.5	25.9	26.2	26.5	26.8	27.1
33	17.3	19.2	20.3	21.3	22.2	22.9	23.6	24.1	24.6	25.1	25.5	25.9	26.2	26.5	26.8	27.1
34	17.7	19.1	20.3	21.3	22.1	22.9	23.5	24.1	24.6	25.1	25.5	25.9	26.2	26.5	26.8	27.1
35	17.6	19.0	20.2	21.2	22.1	22.9	23.5	24.1	24.6	25.1	25.5	25.9	26.2	26.5	26.8	27.1
36	17.5	19.0	20.2	21.2	22.1	22.8	23.5	24.1	24.6	25.1	25.5	25.9	26.2	26.5	26.8	27.1
37	17.5	18.9	20.2	21.2	22.1	22.8	23.5	24.1	24.6	25.1	25.5	25.9	26.2	26.5	26.8	27.1
38	17.4	18.9	20.1	21.2	22.1	22.8	23.5	24.1	24.6	25.1	25.5	25.8	26.2	26.5	26.8	27.0
39	17.4	18.9	20.1	21.2	22.0	22.8	23.5	24.1	24.6	25.0	25.5	25.8	26.2	26.5	26.8	27.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.99

FIVE-HARNESS WEAVE FABRICS



WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4	32.4	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5	31.4	30.3	29.7	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2	30.7	29.6	29.1	28.8	28.7	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.9	30.2	28.9	28.4	28.2	28.1	28.1	28.2	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	28.4	27.8	27.5	27.5	27.5	27.6	27.7	27.9	
23	0.0	0.0	0.0	0.0	0.0	34.3	28.1	27.1	26.8	26.8	26.9	27.0	27.1	27.3	27.5	27.7	
24	0.0	0.0	0.0	0.0	29.2	26.6	26.0	26.0	26.1	26.2	26.5	26.7	26.9	27.1	27.3	27.5	
25	0.0	0.0	0.0	26.8	25.3	25.0	25.1	25.4	25.6	25.9	26.2	26.5	26.7	27.0	27.2	27.4	
26	0.0	0.0	25.0	24.0	24.0	24.3	24.6	25.0	25.4	25.7	26.0	26.3	26.6	26.9	27.1	27.4	
27	0.0	23.3	22.7	22.9	23.4	23.8	24.3	24.8	25.2	25.6	25.9	26.2	26.5	26.8	27.1	27.3	
28	21.6	21.3	21.8	22.4	23.0	23.6	24.1	24.6	25.0	25.5	25.8	26.2	26.5	26.8	27.0	27.3	
29	19.7	20.4	21.2	22.0	22.7	23.4	24.0	24.5	25.0	25.4	25.8	26.1	26.4	26.7	27.0	27.3	
30	18.8	19.9	20.9	21.8	22.6	23.3	23.9	24.4	24.9	25.3	25.7	26.1	26.4	26.7	27.0	27.2	
31	18.4	19.6	20.7	21.6	22.5	23.2	23.8	24.3	24.8	25.3	25.7	26.1	26.4	26.7	27.0	27.2	
32	18.1	19.4	20.6	21.5	22.4	23.1	23.7	24.3	24.8	25.3	25.7	26.0	26.4	26.7	27.0	27.2	
33	17.9	19.3	20.5	21.5	22.3	23.0	23.7	24.3	24.8	25.2	25.6	26.0	26.4	26.7	26.9	27.2	
34	17.9	19.2	20.4	21.4	22.3	23.0	23.7	24.2	24.8	25.2	25.6	26.0	26.3	26.7	26.9	27.2	
35	17.7	19.1	20.3	21.4	22.2	23.0	23.6	24.2	24.7	25.2	25.6	26.0	26.3	26.6	26.9	27.2	
36	17.6	19.1	20.3	21.3	22.2	23.0	23.6	24.2	24.7	25.2	25.6	26.0	26.3	26.6	26.9	27.2	
37	17.6	19.0	20.3	21.3	22.2	22.9	23.6	24.2	24.7	25.2	25.6	26.0	26.3	26.6	26.9	27.2	
38	17.5	19.0	20.2	21.3	22.2	22.9	23.6	24.2	24.7	25.2	25.6	26.0	26.3	26.6	26.9	27.2	
39	17.5	19.0	20.2	21.3	22.2	22.9	23.6	24.2	24.7	25.2	25.6	26.0	26.3	26.6	26.9	27.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =1.00

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.4	33.1
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4	32.0	30.6	30.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5	31.2	29.9	29.4	29.1	28.9
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	29.3	28.7	28.4	28.3	28.3	28.4
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	28.8	28.1	27.8	27.7	27.7	27.8	27.9	28.0
23	0.0	0.0	0.0	0.0	0.0	0.0	28.7	27.5	27.1	27.0	27.0	27.2	27.3	27.5	27.7	27.8
24	0.0	0.0	0.0	0.0	30.7	27.0	26.3	26.2	26.3	26.4	26.6	26.8	27.1	27.3	27.5	27.7
25	0.0	0.0	0.0	27.7	25.6	25.3	25.3	25.5	25.8	26.1	26.4	26.6	26.9	27.1	27.4	27.6
26	0.0	0.0	25.7	24.3	24.2	24.5	24.8	25.2	25.5	25.9	26.2	26.5	26.8	27.0	27.3	27.5
27	0.0	23.9	23.0	23.2	23.6	24.0	24.5	24.9	25.3	25.7	26.1	26.4	26.7	27.0	27.2	27.5
28	22.2	21.6	22.0	22.5	23.1	23.7	24.2	24.7	25.2	25.6	26.0	26.3	26.6	26.9	27.2	27.4
29	19.9	20.6	21.4	22.0	22.9	23.5	24.1	24.6	25.1	25.5	25.9	26.3	26.6	26.9	27.2	27.4
30	19.0	20.1	21.1	21.9	22.7	23.4	24.0	24.5	25.0	25.5	25.9	26.2	26.5	26.8	27.1	27.4
31	19.5	19.8	20.8	21.8	22.6	23.3	23.9	24.5	25.0	25.4	25.8	26.2	26.5	26.8	27.1	27.4
32	18.2	19.6	20.7	21.7	22.5	23.2	23.9	24.4	24.9	25.4	25.9	26.2	26.5	26.8	27.1	27.4
33	18.0	19.4	20.6	21.6	22.4	23.2	23.8	24.4	24.9	25.4	25.9	26.1	26.5	26.8	27.1	27.3
34	17.9	19.3	20.5	21.5	22.4	23.1	23.8	24.4	24.9	25.3	25.8	26.1	26.5	26.8	27.1	27.5
35	17.8	19.2	20.4	21.5	22.3	23.1	23.8	24.3	24.9	25.3	25.8	26.1	26.5	26.8	27.1	27.3
36	17.7	19.2	20.4	21.4	22.3	23.1	23.7	24.3	24.9	25.3	25.7	26.1	26.5	26.8	27.1	27.3
37	17.7	19.1	20.4	21.4	22.3	23.1	23.7	24.3	24.8	25.3	25.7	26.1	26.5	26.8	27.1	27.3
38	17.6	19.1	20.3	21.4	22.3	23.1	23.7	24.3	24.8	25.3	25.7	26.1	26.5	26.8	27.1	27.3
39	17.6	19.1	20.3	21.4	22.3	23.0	23.7	24.3	24.8	25.3	25.7	26.1	26.5	26.8	27.1	27.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.36

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.6	36.5
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	38.2	36.2	35.3	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.5	35.8	34.8	34.3	34.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	35.7	34.3	33.7	33.5	33.3	33.3	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.7	34.1	33.2	32.9	32.7	32.7	32.8	32.9	
26	0.0	0.0	0.0	0.0	0.0	0.0	34.4	32.8	32.3	32.1	32.1	32.2	32.3	32.5	32.6	
27	0.0	0.0	0.0	0.0	0.0	39.0	32.8	31.7	31.4	31.4	31.4	31.6	31.8	32.0	32.2	32.4
28	0.0	0.0	0.0	0.0	35.7	31.5	30.7	30.5	30.6	30.8	31.0	31.3	31.6	31.8	32.1	32.3
29	0.0	0.0	0.0	33.7	30.2	29.7	29.7	29.9	30.1	30.5	30.8	31.1	31.4	31.7	31.9	32.2
30	0.0	0.0	30.4	29.0	28.6	28.7	29.1	29.4	29.8	30.2	30.6	30.9	31.3	31.6	31.8	32.1
31	0.0	31.6	27.7	27.5	27.7	28.2	28.7	29.2	29.6	30.0	30.4	30.8	31.2	31.5	31.8	32.1
32	32.4	28.3	26.2	26.6	27.2	27.8	28.4	28.9	29.4	29.9	30.3	30.7	31.1	31.4	31.7	32.0
33	24.7	24.7	25.4	25.1	26.9	27.6	28.2	28.8	29.2	29.8	30.3	30.7	31.0	31.4	31.7	32.0
34	23.0	23.9	24.9	25.3	26.6	27.4	28.1	28.7	29.2	29.7	30.2	30.6	31.0	31.3	31.7	32.0
35	22.2	23.4	24.6	25.6	26.5	27.3	28.0	28.6	29.2	29.7	30.2	30.6	31.0	31.3	31.6	31.9
36	21.7	23.1	24.3	25.4	26.4	27.2	27.9	28.5	29.1	29.6	30.1	30.5	30.9	31.3	31.6	31.9
37	21.3	22.9	24.2	25.3	26.3	27.1	27.8	28.5	29.1	29.6	30.1	30.5	30.9	31.3	31.6	31.9
38	21.1	22.7	24.0	25.2	26.2	27.0	27.8	28.5	29.1	29.6	30.1	30.5	30.9	31.3	31.6	31.9
39	20.9	22.6	24.0	25.1	26.1	27.0	27.8	28.4	29.0	29.6	30.1	30.5	30.9	31.2	31.6	31.9
40	20.8	22.5	23.9	25.1	26.1	27.0	27.7	28.4	29.0	29.6	30.0	30.5	30.9	31.2	31.6	31.9
41	20.7	22.4	23.8	25.0	26.1	26.9	27.7	28.4	29.0	29.5	30.0	30.5	30.9	31.2	31.6	31.9
42	20.6	22.4	23.8	25.0	26.0	26.9	27.7	28.4	29.0	29.5	30.0	30.5	30.9	31.2	31.6	31.9
43	20.6	22.3	23.8	25.0	26.0	26.9	27.7	28.4	29.0	29.5	30.0	30.5	30.9	31.2	31.6	31.9
44	20.6	22.3	23.7	25.0	26.0	26.9	27.7	28.4	29.0	29.5	30.0	30.5	30.9	31.2	31.6	31.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =1.48

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.7	39.7	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.7	39.5	37.6	36.7	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.1	37.3	36.2	35.7	35.5		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2	37.4	35.9	35.2	34.9	34.8	34.8		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	35.8	34.8	34.4	34.2	34.2	34.2	34.3	34.4	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6	34.5	33.8	33.6	33.5	33.6	33.7	33.9	34.1	
28	0.0	0.0	0.0	0.0	0.0	57.6	34.9	33.4	32.9	32.8	32.9	33.0	33.2	33.4	33.6	33.9	
29	0.0	0.0	0.0	0.0	42.3	33.5	32.3	32.0	32.1	32.2	32.5	32.7	33.0	33.2	33.5	33.7	
30	0.0	0.0	0.0	40.0	32.2	31.3	31.1	31.3	31.5	31.8	32.2	32.5	32.8	33.1	33.3	33.6	
31	0.0	0.0	40.4	31.0	30.2	30.5	30.8	31.2	31.6	31.9	32.3	32.6	32.9	33.2	33.5		
32	0.0	0.0	29.8	29.0	29.2	29.6	30.0	30.5	31.0	31.4	31.8	32.2	32.5	32.9	33.2	33.5	
33	0.0	28.5	27.8	28.1	28.6	29.2	29.7	30.3	30.8	31.2	31.7	32.1	32.5	32.8	33.1	33.4	
34	27.3	26.3	26.8	27.5	28.2	28.9	29.5	30.1	30.6	31.1	31.6	32.0	32.4	32.7	33.1	33.4	
35	24.6	25.3	26.2	27.1	27.9	28.7	29.4	30.0	30.5	31.1	31.5	32.0	32.3	32.7	33.0	33.3	
36	23.5	24.7	25.8	26.8	27.7	28.5	29.2	29.9	30.5	31.0	31.5	31.9	32.3	32.7	33.0	33.3	
37	22.9	24.3	25.5	26.6	27.6	28.4	29.1	29.8	30.4	30.9	31.4	31.9	32.3	32.7	33.0	33.3	
38	22.4	24.0	25.3	26.5	27.4	28.3	29.1	29.8	30.4	30.9	31.4	31.9	32.3	32.6	33.0	33.3	
39	22.1	23.8	25.2	26.3	27.4	28.2	29.0	29.7	30.3	30.9	31.4	31.8	32.2	32.6	33.0	33.3	
40	21.9	23.6	25.1	26.3	27.3	28.2	29.0	29.7	30.3	30.9	31.4	31.8	32.2	32.6	33.0	33.3	
41	21.8	23.5	25.0	26.2	27.2	28.2	29.0	29.7	30.3	30.8	31.3	31.8	32.2	32.6	32.9	33.3	
42	21.7	23.4	24.9	26.1	27.2	28.1	28.9	29.6	30.3	30.8	31.3	31.8	32.2	32.6	32.9	33.3	
43	21.6	23.4	24.9	26.1	27.2	28.1	28.9	29.6	30.2	30.8	31.3	31.8	32.2	32.6	32.9	33.3	
44	21.5	23.3	24.8	26.1	27.1	28.1	28.9	29.6	30.2	30.8	31.3	31.8	32.2	32.6	32.9	33.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =1.50

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.3	40.8	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.8	38.3	37.3	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.1	38.1	36.8	36.2	35.9	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	36.5	35.7	35.3	35.2	35.1	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	36.6	35.3	34.8	34.6	34.5	34.6	34.6	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1	35.2	34.3	34.0	33.9	33.9	34.0	34.2	34.3	
28	0.0	0.0	0.0	0.0	0.0	0.0	36.0	34.0	33.4	33.2	33.2	33.3	33.5	33.7	33.9	34.1	
29	0.0	0.0	0.0	0.0	0.0	34.5	32.9	32.4	32.4	32.5	32.7	33.0	33.2	33.5	33.7	34.0	
30	0.0	0.0	0.0	0.0	33.2	31.8	31.5	31.6	31.8	32.1	32.4	32.7	33.0	33.3	33.6	33.8	
31	0.0	0.0	0.0	31.4	30.7	30.6	30.8	31.1	31.5	31.8	32.2	32.5	32.9	33.2	33.5	33.8	
32	0.0	0.0	30.8	29.5	29.6	29.9	30.3	30.8	31.2	31.6	32.0	32.4	32.8	33.1	33.4	33.7	
33	0.0	29.6	28.3	28.4	28.9	29.4	30.0	30.5	31.0	31.5	31.9	32.3	32.7	33.0	33.3	33.6	
34	24.7	26.8	27.1	27.8	28.4	29.1	29.8	30.3	30.9	31.4	31.8	32.2	32.6	33.0	33.3	33.6	
35	25.2	25.6	26.5	27.3	28.1	28.9	29.6	30.2	30.8	31.3	31.8	32.2	32.6	32.9	33.3	33.6	
36	23.9	25.0	26.0	27.0	27.9	28.7	29.5	30.1	30.7	31.2	31.7	32.1	32.5	32.9	33.2	33.6	
37	23.1	24.5	25.7	26.8	27.8	28.6	29.4	30.0	30.6	31.2	31.7	32.1	32.5	32.9	33.2	33.5	
38	22.7	24.2	25.5	26.7	27.7	28.5	29.3	30.0	30.6	31.1	31.6	32.1	32.5	32.9	33.2	33.5	
39	22.4	24.0	25.4	26.5	27.6	28.5	29.2	29.9	30.5	31.1	31.6	32.1	32.5	32.8	33.2	33.5	
40	22.1	23.8	25.2	26.5	27.5	28.4	29.2	29.9	30.5	31.1	31.6	32.0	32.4	32.8	33.2	33.5	
41	22.0	23.7	25.2	26.4	27.4	28.4	29.2	29.9	30.5	31.1	31.6	32.0	32.4	32.8	33.2	33.5	
42	21.9	23.6	25.1	26.3	27.4	28.3	29.1	29.8	30.5	31.0	31.5	32.0	32.4	32.8	33.2	33.5	
43	21.8	23.5	25.0	26.3	27.4	28.3	29.1	29.8	30.5	31.0	31.5	32.0	32.4	32.8	33.2	33.5	
44	21.7	23.5	25.0	26.3	27.3	28.3	29.1	29.8	30.4	31.0	31.5	32.0	32.4	32.8	33.1	33.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =1.77

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.7			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2	40.4			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.9	41.7	40.1	39.4	39.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	40.1	39.0	38.5	38.3	38.2				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.7	40.8	39.9	38.1	37.8	37.7	37.7	37.7				
29	0.0	0.0	0.0	0.0	0.0	0.0	45.8	39.3	37.8	37.2	37.1	37.0	37.1	37.1	37.2	37.4			
30	0.0	0.0	0.0	0.0	0.0	42.8	38.0	36.8	36.4	36.4	36.4	36.4	36.6	36.7	36.9	37.1			
31	0.0	0.0	0.0	0.0	0.0	41.1	36.8	35.9	35.6	35.8	36.0	36.2	36.5	36.7	37.0				
32	0.0	0.0	0.0	0.0	40.0	35.8	34.9	34.8	34.9	35.1	35.4	35.7	36.0	36.3	36.6	36.8			
33	0.0	0.0	0.0	39.5	34.7	33.9	33.9	34.1	34.4	34.8	35.1	35.5	35.8	36.1	36.4	36.7			
34	0.0	0.0	40.6	33.6	32.9	33.0	33.3	33.7	34.1	34.5	34.9	35.3	35.7	36.0	36.3	36.7			
35	0.0	0.0	32.6	31.7	31.9	32.3	32.8	33.3	33.8	34.3	34.8	35.2	35.6	35.9	36.3	36.6			
36	0.0	31.5	30.5	30.7	31.3	31.9	32.5	33.1	33.7	34.2	34.7	35.1	35.5	35.9	36.2	36.5			
37	30.8	29.1	29.4	30.1	30.9	31.6	32.3	32.9	33.5	34.1	34.6	35.0	35.4	35.8	36.2	36.5			
38	27.4	27.9	28.8	29.7	30.6	31.4	32.1	32.8	33.4	34.0	34.5	35.0	35.4	35.8	36.1	36.5			
39	26.0	27.2	28.3	29.4	30.4	31.2	32.0	32.7	33.3	33.9	34.4	34.9	35.3	35.7	36.1	36.4			
40	25.2	26.7	28.0	29.2	30.2	31.1	31.9	32.6	33.3	33.9	34.4	34.9	35.3	35.7	36.1	36.4			
41	24.7	26.4	27.8	29.0	30.1	31.0	31.8	32.6	33.2	33.8	34.4	34.8	35.3	35.7	36.1	36.4			
42	24.4	26.1	27.6	28.9	30.0	30.9	31.8	32.5	33.2	33.8	34.3	34.8	35.3	35.7	36.1	36.4			
43	24.1	26.0	27.5	28.8	29.9	30.9	31.7	32.5	33.2	33.8	34.3	34.8	35.3	35.7	36.0	36.4			
44	24.0	25.8	27.4	28.7	29.8	30.8	31.7	32.5	33.1	33.7	34.3	34.8	35.2	35.7	36.0	36.4			
45	23.8	25.7	27.3	28.6	29.8	30.8	31.7	32.4	33.1	33.7	34.3	34.8	35.2	35.6	36.0	36.4			
46	23.7	25.6	27.2	28.6	29.7	30.8	31.6	32.4	33.1	33.7	34.3	34.8	35.2	35.6	36.0	36.4			
47	23.6	25.6	27.2	28.5	29.7	30.7	31.6	32.4	33.1	33.7	34.3	34.8	35.2	35.6	36.0	36.4			
48	23.5	25.5	27.1	28.5	29.7	30.7	31.6	32.4	33.1	33.7	34.2	34.8	35.2	35.6	36.0	36.4			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.00

FIVE-HARNESS WEAVE FARRICS

WARP
COVER
FACTOR
(X1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.6
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.0	46.9	44.4
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.2	44.6	43.0	42.3
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8	43.1	42.0	41.4	41.2
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.8	43.8	41.9	41.0	40.7	40.5	40.5
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	42.3	40.8	40.2	40.0	39.9	39.9	40.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7	41.1	39.9	39.4	39.3	39.3	39.4	39.5	39.7
32	0.0	0.0	0.0	0.0	0.0	0.0	44.2	40.0	39.0	38.6	38.6	38.7	38.8	39.0	39.2	39.5
33	0.0	0.0	0.0	0.0	0.0	43.1	39.0	38.1	37.8	37.9	38.0	38.2	38.5	38.8	39.0	39.3
34	0.0	0.0	0.0	0.0	42.7	38.1	37.1	37.0	37.1	37.3	37.6	37.9	38.3	38.6	38.9	39.2
35	0.0	0.0	0.0	43.3	37.1	36.2	36.1	36.3	36.6	37.0	37.4	37.7	38.1	38.4	38.7	39.1
36	0.0	0.0	49.6	36.2	35.1	35.1	35.4	35.8	36.3	36.7	37.1	37.5	37.9	38.3	38.6	39.0
37	0.0	0.0	35.3	34.0	34.1	34.5	35.0	35.5	36.0	36.5	37.0	37.4	37.8	38.2	38.6	38.9
38	0.0	34.8	32.8	32.9	33.4	34.0	34.7	35.3	35.8	36.4	36.9	37.3	37.8	38.1	38.5	38.9
39	35.6	31.5	31.6	32.2	32.9	33.7	34.4	35.1	35.7	36.3	36.8	37.2	37.7	38.1	38.5	38.8
40	30.0	30.0	30.8	31.7	32.6	33.5	34.2	34.9	35.6	36.2	36.7	37.2	37.6	38.0	38.4	38.8
41	28.2	29.2	30.3	31.4	32.4	33.3	34.1	34.8	35.5	36.1	36.6	37.1	37.6	38.0	38.4	38.8
42	27.2	28.6	29.9	31.1	32.2	33.1	34.0	34.7	35.4	36.0	36.6	37.1	37.6	38.0	38.4	38.7
43	26.6	28.2	29.7	30.9	32.0	33.0	33.9	34.7	35.4	36.0	36.5	37.1	37.5	38.0	38.4	38.7
44	26.1	27.9	29.4	30.8	31.9	32.9	33.8	34.6	35.3	35.9	36.5	37.0	37.5	37.9	38.3	38.7
45	25.8	27.7	29.3	30.7	31.8	32.9	33.8	34.6	35.3	35.9	36.5	37.0	37.5	37.9	38.3	38.7
46	25.6	27.5	29.2	30.6	31.8	32.8	33.7	34.5	35.2	35.9	36.5	37.0	37.5	37.9	38.3	38.7
47	25.4	27.4	29.1	30.5	31.7	32.8	33.7	34.5	35.2	35.9	36.4	37.0	37.5	37.9	38.3	38.7
48	25.3	27.3	29.0	30.4	31.7	32.7	33.6	34.5	35.2	35.8	36.4	37.0	37.4	37.9	38.3	38.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.36

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.5	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.1	49.1	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.7	50.1	47.6	46.5	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.6	48.3	46.4	45.5	45.1	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.3	46.9	45.4	44.7	44.4	44.3	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.3	45.7	44.5	44.0	43.7	43.7	43.7	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.8	44.7	43.6	43.2	43.1	43.1	43.2	43.3	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.8	43.8	42.8	42.5	42.4	42.5	42.6	42.8	43.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	46.0	42.9	42.0	41.7	41.7	41.9	42.1	42.3	42.6	42.8	
36	0.0	0.0	0.0	0.0	0.0	45.5	42.0	41.1	40.9	41.0	41.2	41.5	41.8	42.1	42.4	42.7	
37	0.0	0.0	0.0	0.0	45.6	41.2	40.3	40.1	40.3	40.5	40.9	41.2	41.5	41.9	42.2	42.5	
38	0.0	0.0	0.0	47.4	40.4	39.3	39.2	39.4	39.8	40.2	40.6	41.0	41.4	41.7	42.1	42.4	
39	0.0	0.0	0.0	39.6	38.3	38.3	38.6	39.0	39.4	39.9	40.4	40.8	41.2	41.6	42.0	42.3	
40	0.0	0.0	39.2	37.3	37.2	37.6	38.1	38.6	39.2	39.7	40.2	40.7	41.1	41.5	41.9	42.3	
41	0.0	39.8	36.1	36.0	36.5	37.1	37.7	38.4	39.0	39.5	40.1	40.6	41.0	41.5	41.9	42.2	
42	52.2	35.0	34.7	35.2	35.9	36.7	37.5	38.2	38.8	39.4	40.0	40.5	41.0	41.4	41.8	42.2	
43	34.2	33.1	33.8	34.6	35.6	36.4	37.3	38.0	38.7	39.3	39.9	40.4	40.9	41.3	41.8	42.1	
44	31.4	32.1	33.1	34.2	35.3	36.2	37.1	37.9	38.6	39.2	39.8	40.4	40.9	41.3	41.7	42.1	
45	30.1	31.4	32.7	33.9	35.1	36.1	37.0	37.8	38.5	39.2	39.8	40.3	40.8	41.3	41.7	42.1	
46	29.3	30.9	32.4	33.7	34.9	35.9	36.9	37.7	38.4	39.1	39.7	40.3	40.8	41.2	41.7	42.1	
47	28.7	30.5	32.1	33.5	34.8	35.8	36.8	37.6	38.4	39.1	39.7	40.2	40.8	41.2	41.7	42.1	
48	28.3	30.3	32.0	33.4	34.7	35.8	36.7	37.6	38.3	39.0	39.7	40.2	40.7	41.2	41.6	42.0	
49	28.0	30.1	31.8	33.3	34.6	35.7	36.7	37.5	38.3	39.0	39.6	40.2	40.7	41.2	41.6	42.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.50

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.8
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	49.9
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.7	50.7	48.6	47.6
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.2	49.2	47.5	46.7	45.3
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.8	47.9	46.6	45.9	45.6	45.5
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.2	46.9	45.7	45.2	45.0	44.9	45.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0	45.9	44.9	44.4	44.3	44.3	44.4	44.6
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.1	45.0	44.1	43.7	43.7	43.7	43.9	44.1	44.3
36	0.0	0.0	0.0	0.0	0.0	0.0	47.5	44.2	43.2	43.0	43.0	43.1	43.3	43.6	43.8	44.1
37	0.0	0.0	0.0	0.0	0.0	47.2	43.4	42.4	42.2	42.3	42.5	42.7	43.0	43.3	43.6	43.9
38	0.0	0.0	0.0	0.0	47.9	42.6	41.5	41.4	41.5	41.9	42.1	42.4	42.8	43.1	43.5	43.8
39	0.0	0.0	0.0	51.7	41.9	40.6	40.5	40.7	41.0	41.4	41.8	42.2	42.6	43.0	43.3	43.7
40	0.0	0.0	0.0	41.3	39.7	39.5	39.8	40.2	40.6	41.1	41.6	42.0	42.5	42.9	43.2	43.6
41	0.0	0.0	41.3	38.7	38.4	38.8	39.3	39.8	40.4	40.9	41.4	41.9	42.3	42.8	43.2	43.5
42	0.0	43.2	37.6	37.3	37.6	38.2	38.9	39.5	40.1	40.7	41.3	41.8	42.2	42.7	43.1	43.5
43	0.0	36.7	35.9	36.4	37.1	37.9	38.6	39.3	40.0	40.6	41.2	41.7	42.2	42.6	43.0	43.4
44	36.4	34.5	34.9	35.8	36.7	37.6	38.4	39.2	39.9	40.5	41.1	41.6	42.1	42.5	43.0	43.4
45	32.9	33.3	34.3	35.3	36.4	37.3	38.2	39.0	39.7	40.4	41.0	41.6	42.1	42.5	43.0	43.4
46	31.3	32.5	33.8	35.0	36.2	37.2	38.1	39.0	39.7	40.3	40.9	41.5	42.0	42.5	42.9	43.3
47	30.4	32.0	33.4	34.8	36.0	37.0	38.0	38.8	39.6	40.3	40.9	41.5	42.0	42.5	42.9	43.3
48	29.7	31.6	33.2	34.6	35.8	36.9	37.9	38.8	39.5	40.2	40.9	41.4	42.0	42.4	42.9	43.3
49	29.3	31.3	33.0	34.4	35.7	36.8	37.8	38.7	39.5	40.2	40.8	41.4	41.9	42.4	42.9	43.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.75

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.7	54.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.6	52.4	50.7	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3	51.1	49.8	49.1	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.1	52.7	50.0	48.9	48.4	48.1	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.4	51.4	49.1	48.1	47.7	47.5	47.5	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.5	50.4	48.2	47.4	47.0	46.9	46.9	47.0	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.4	49.5	47.4	46.6	46.3	46.3	46.3	46.5	46.6	
37	0.0	0.0	0.0	0.0	0.0	0.0	82.3	49.8	46.6	45.8	45.6	45.6	45.7	45.9	46.1	46.4	
38	0.0	0.0	0.0	0.0	0.0	0.0	48.3	45.8	45.1	44.9	44.9	45.1	45.3	45.6	45.9	46.2	
39	0.0	0.0	0.0	0.0	0.0	48.1	45.0	44.2	44.1	44.2	44.4	44.7	45.1	45.4	45.7	46.0	
40	0.0	0.0	0.0	48.7	44.3	43.4	43.3	43.3	43.4	43.7	44.1	44.5	44.8	45.2	45.6	45.9	
41	0.0	0.0	0.0	51.6	43.6	42.5	42.4	42.6	43.0	43.4	43.8	44.2	44.7	45.1	45.4	45.8	
42	0.0	0.0	0.0	43.2	41.5	41.4	41.7	42.1	42.6	43.1	43.6	44.1	44.5	44.9	45.3	45.7	
43	0.0	0.0	43.3	40.5	40.3	40.7	41.2	41.7	42.3	42.9	43.4	43.9	44.4	44.8	45.3	45.6	
44	0.0	46.1	39.6	39.1	39.5	40.1	40.8	41.5	42.1	42.7	43.3	43.8	44.3	44.8	45.2	45.6	
45	0.0	38.8	37.8	38.2	38.9	39.7	40.5	41.3	41.9	42.6	43.2	43.7	44.2	44.7	45.1	45.5	
46	39.2	36.4	36.8	37.6	38.5	39.4	40.3	41.1	41.8	42.5	43.1	43.7	44.2	44.7	45.1	45.5	
47	35.0	35.1	36.1	37.1	38.2	39.2	40.1	40.9	41.7	42.4	43.0	43.6	44.1	44.6	45.1	45.5	
48	33.2	34.2	35.5	36.8	38.0	39.0	40.0	40.8	41.6	42.3	43.0	43.5	44.1	44.6	45.0	45.4	
49	32.1	33.7	35.2	36.5	37.8	38.9	39.9	40.7	41.5	42.3	42.9	43.5	44.0	44.5	45.0	45.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.95

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.6	56.3
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9	54.7	52.8
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.4	53.4	51.8	51.1
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.7	52.3	51.0	50.3	50.0	50.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.4	51.4	50.2	49.6	49.4	49.3	49.3
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	50.5	49.4	48.9	48.7	48.7	48.8	48.8
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.8	49.7	48.6	48.2	48.1	48.1	48.2	48.4	48.4
38	0.0	0.0	0.0	0.0	0.0	0.0	52.4	49.0	47.9	47.5	47.4	47.5	47.7	47.9	48.1	48.1
39	0.0	0.0	0.0	0.0	0.0	52.4	48.3	47.1	46.8	46.7	46.9	47.1	47.3	47.6	47.9	47.9
40	0.0	0.0	0.0	0.0	53.3	47.6	46.3	46.0	46.0	46.2	46.5	46.8	47.1	47.4	47.7	47.7
41	0.0	0.0	0.0	57.5	47.1	45.5	45.2	45.2	45.5	45.8	46.2	46.5	46.9	47.2	47.6	47.6
42	0.0	0.0	0.0	46.8	44.7	44.3	44.4	44.7	45.1	45.5	45.9	46.3	46.7	47.1	47.5	47.5
43	0.0	0.0	47.2	43.9	43.4	43.5	43.8	44.3	44.8	45.3	45.7	46.2	46.6	47.0	47.4	47.4
44	0.0	0.0	50.2	43.1	42.3	42.5	42.9	43.4	44.0	44.5	45.1	45.6	46.0	46.5	46.9	47.3
45	0.0	0.0	42.7	41.2	41.3	41.8	42.5	43.1	43.7	44.3	44.9	45.4	45.9	46.4	46.8	47.2
46	0.0	43.2	40.1	40.1	40.7	41.4	42.1	42.9	43.5	44.2	44.8	45.3	45.9	46.3	46.8	47.2
47	53.6	39.0	38.7	39.3	40.2	41.0	41.9	42.7	43.4	44.1	44.7	45.3	45.8	46.3	46.7	47.2
48	39.5	37.2	37.8	38.8	39.8	40.8	41.7	42.5	43.3	44.0	44.6	45.2	45.7	46.2	46.7	47.1
49	35.5	36.0	37.2	38.4	39.5	40.5	41.5	42.4	43.2	43.9	44.5	45.1	45.7	46.2	46.7	47.1
50	34.0	35.3	36.7	38.0	39.3	40.4	41.4	42.3	43.1	43.8	44.5	45.1	45.6	46.2	46.6	47.1
51	33.0	34.7	36.3	37.3	39.1	40.2	41.3	42.2	43.0	43.8	44.4	45.0	45.6	46.1	46.6	47.0
52	32.4	34.3	36.1	37.6	38.9	40.1	41.2	42.1	42.9	43.7	44.4	45.0	45.6	46.1	46.6	47.0
53	31.9	34.0	35.8	37.4	38.8	40.0	41.1	42.0	42.9	43.7	44.4	45.0	45.6	46.1	46.6	47.0
54	31.6	33.8	35.7	37.3	38.7	39.9	41.0	42.0	42.9	43.6	44.3	45.0	45.6	46.1	46.6	47.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.25

FIVE-HARNES WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.7
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.9	57.1
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.7	59.0	55.9	54.6
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.7	57.7	55.0	53.8	53.1
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.7	56.6	54.1	53.0	52.5	52.2
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.2	55.7	53.3	52.3	51.8	51.6	51.6
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.5	55.0	52.5	51.5	51.1	51.0	51.0	51.1
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5	51.8	50.8	50.5	50.4	50.4	50.6	50.8
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.2	51.1	50.1	49.8	49.7	49.8	50.4	50.2	50.5
41	0.0	0.0	0.0	0.0	0.0	0.0	54.5	50.5	49.4	49.0	49.0	49.2	49.4	49.7	50.0	50.3
42	0.0	0.0	0.0	0.0	0.0	55.7	49.9	48.6	48.3	48.3	48.5	48.8	49.1	49.4	49.8	50.1
43	0.0	0.0	0.0	0.0	61.6	49.6	47.8	47.4	47.5	47.8	48.1	48.5	48.8	49.2	49.6	50.0
44	0.0	0.0	0.0	0.0	49.5	47.1	46.6	46.7	47.0	47.3	47.8	48.2	48.6	49.1	49.5	49.8
45	0.0	0.0	0.0	50.5	46.3	45.6	45.7	46.1	46.5	47.0	47.5	48.0	48.5	48.9	49.3	49.7
46	0.0	0.0	57.1	45.8	44.7	44.7	45.1	45.6	46.2	46.8	47.3	47.9	48.4	48.8	49.3	49.7
47	0.0	0.0	45.7	43.6	43.6	44.0	44.7	45.3	46.0	46.6	47.2	47.7	48.2	48.7	49.2	49.6
48	0.0	47.8	42.6	42.4	42.8	43.5	44.3	45.0	45.8	46.4	47.0	47.6	48.2	48.7	49.1	49.6
49	0.0	41.9	41.0	41.5	42.3	43.2	44.0	44.8	45.6	46.3	46.9	47.5	48.1	48.6	49.1	49.5
50	42.6	39.6	40.0	40.9	41.9	42.9	43.8	44.7	45.5	46.2	46.8	47.5	48.0	48.5	49.0	49.5
51	38.3	38.2	39.2	40.4	41.5	42.6	43.6	44.5	45.3	46.1	46.8	47.4	48.0	48.5	49.0	49.4
52	36.3	37.4	38.7	40.1	41.3	42.5	43.5	44.4	45.3	46.0	46.7	47.3	47.9	48.5	49.0	49.4
53	35.1	36.7	38.3	39.8	41.1	42.3	43.4	44.3	45.2	46.0	46.7	47.3	47.9	48.4	48.9	49.4
54	34.3	36.3	38.0	39.6	40.9	42.2	43.3	44.2	45.1	45.9	46.6	47.3	47.9	48.4	48.9	49.4

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.54

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.2
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.7	61.5
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4	60.1	58.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4	59.0	57.1	56.1
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.2	58.1	56.3	55.4	55.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.4	57.3	55.5	54.7	54.4	54.2	
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.2	56.6	54.8	54.1	53.7	53.6	53.6	
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	56.0	54.1	53.4	53.1	53.0	53.1	53.2	
41	0.0	0.0	0.0	0.0	0.0	0.0	65.1	55.6	53.5	52.7	52.4	52.4	52.5	52.7	52.9	
42	0.0	0.0	0.0	0.0	0.0	80.2	55.3	52.8	52.0	51.7	51.7	51.9	52.1	52.4	52.6	
43	0.0	0.0	0.0	0.0	0.0	55.5	52.2	51.3	51.0	51.0	51.2	51.5	51.8	52.1	52.4	
44	0.0	0.0	0.0	0.0	0.0	56.5	51.7	50.5	50.2	50.3	50.5	50.8	51.2	51.5	51.9	52.3
45	0.0	0.0	0.0	0.0	60.6	51.3	49.7	49.4	49.5	49.8	50.1	50.5	50.9	51.3	51.7	52.1
46	0.0	0.0	0.0	0.0	51.3	49.0	48.5	48.6	49.0	49.4	49.8	50.3	50.8	51.2	51.6	52.0
47	0.0	0.0	0.0	52.5	48.3	47.6	47.7	48.1	48.6	49.1	49.6	50.1	50.6	51.1	51.5	51.9
48	0.0	0.0	59.9	47.8	46.6	46.7	47.1	47.6	48.2	48.8	49.4	49.9	50.5	51.0	51.4	51.8
49	0.0	0.0	48.0	45.6	45.5	46.0	46.6	47.3	48.0	48.6	49.2	49.8	50.4	50.9	51.3	51.8
50	0.0	51.1	44.7	44.3	44.8	45.5	46.3	47.0	47.8	48.5	49.1	49.7	50.3	50.8	51.3	51.7
51	0.0	44.2	43.0	43.4	44.2	45.1	46.0	46.8	47.6	48.3	49.0	49.6	50.2	50.7	51.2	51.7
52	46.1	41.6	41.9	42.8	43.8	44.8	45.8	46.6	47.5	48.2	48.9	49.5	50.1	50.7	51.2	51.6
53	40.6	40.2	41.1	42.3	43.4	44.6	45.6	46.5	47.3	48.1	48.8	49.5	50.1	50.6	51.1	51.6
54	38.0	39.2	40.5	41.9	43.2	44.4	45.4	46.4	47.3	48.0	48.8	49.4	50.0	50.6	51.1	51.6
55	37.0	38.5	40.1	41.6	43.0	44.2	45.3	46.3	47.2	48.0	48.7	49.4	50.0	50.6	51.1	51.5
56	36.1	38.0	39.8	41.4	42.8	44.1	45.2	46.2	47.1	47.9	48.7	49.3	50.0	50.5	51.0	51.5

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.75

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.6	63.3
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.7	62.0	59.7
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.9	61.0	58.9	57.8	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.9	60.1	58.1	57.1	56.7	
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.5	59.4	57.4	56.5	56.0	55.9	
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.9	58.8	56.7	55.8	55.4	55.3	55.3	
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.7	58.3	56.0	55.1	54.8	54.7	54.7	54.8	
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.7	58.0	55.4	54.5	54.1	54.0	54.1	54.3	54.5	
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.1	54.8	53.8	53.4	53.4	53.5	53.7	53.9	54.2	
44	0.0	0.0	0.0	0.0	0.0	0.0	58.8	54.3	53.1	52.7	52.7	52.8	53.1	53.4	53.7	54.0	
45	0.0	0.0	0.0	0.0	0.0	61.4	54.0	52.4	52.0	51.9	52.1	52.4	52.8	53.1	53.5	53.8	
46	0.0	0.0	0.0	0.0	0.0	53.9	51.7	51.2	51.2	51.4	51.7	52.1	52.5	52.9	53.3	53.7	
47	0.0	0.0	0.0	0.0	54.6	51.1	50.3	50.3	50.6	51.0	51.4	51.8	52.3	52.7	53.2	53.6	
48	0.0	0.0	0.0	58.0	50.6	49.4	49.4	49.7	50.1	50.6	51.1	51.6	52.1	52.6	53.0	53.5	
49	0.0	0.0	0.0	50.6	48.6	48.4	48.7	49.2	49.8	50.3	50.9	51.5	52.0	52.5	52.9	53.4	
50	0.0	0.0	52.0	47.8	47.3	47.6	48.2	47.8	49.5	50.1	50.7	51.3	51.9	52.4	52.9	53.3	
51	0.0	81.2	47.2	46.1	46.4	47.0	47.8	48.5	49.3	50.0	50.6	51.2	51.8	52.3	52.8	53.3	
52	0.0	47.8	45.0	45.1	45.8	46.6	47.5	48.3	49.1	49.8	50.5	51.1	51.7	52.2	52.7	53.2	
53	59.8	44.0	43.6	44.3	45.3	46.3	47.2	48.1	48.9	49.7	50.4	51.0	51.6	52.2	52.7	53.2	
54	44.0	42.1	42.7	43.8	44.9	46.0	47.0	47.9	48.8	49.6	50.3	51.0	51.6	52.1	52.6	53.1	
55	40.6	40.9	42.0	43.3	44.6	45.8	46.8	47.8	48.7	49.5	50.2	50.9	51.5	52.1	52.6	53.1	
56	38.8	40.0	41.5	43.0	44.3	45.6	46.7	47.7	48.6	49.4	50.2	50.9	51.5	52.1	52.6	53.1	
57	37.7	39.4	41.1	42.7	44.1	45.4	46.5	47.6	48.5	49.4	50.1	50.8	51.4	52.0	52.6	53.0	
58	36.9	38.9	40.8	42.5	44.0	45.3	46.5	47.5	48.5	49.3	50.1	50.8	51.4	52.0	52.5	53.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 4.00

FIVE-HARNESS WEAVE FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0121.3	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.8 66.2
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.8 64.9 62.1
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9 63.9 61.3 60.1
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.3 63.1 60.5 59.4 58.8
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.1 57.9
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5 57.3 57.2
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9 56.7 56.8
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.2 56.1 56.2 56.4
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.6 55.5 55.6 55.8 56.1
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3 55.6 55.9
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3 55.7
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.1 55.5
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.4
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.9
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.8
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.7
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.6
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.4
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.2

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =4.13

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =4.60

FIVE-HARNESS WEAVE FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.8	
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.2 68.9	
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.2	68.1	65.8	
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9	67.4	65.2	64.0		
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.2	66.9	64.5	63.4	62.8		
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.8	66.5	64.0	62.8	62.3	62.0		
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.7	66.4	63.4	62.2	61.7	61.4	61.4		
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	63.0	61.6	61.0	60.8	60.8	60.9		
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.3	62.6	61.0	60.4	60.2	60.2	60.3	60.5		
47	0.0	0.0	0.0	0.0	0.0	0.0	69.5	62.4	60.5	59.8	59.5	59.6	59.7	59.9	60.2		
48	0.0	0.0	0.0	0.0	0.0	78.4	62.5	60.0	59.1	58.9	58.9	59.1	59.3	59.6	60.0		
49	0.0	0.0	0.0	0.0	0.0	63.3	59.6	58.4	58.1	58.2	58.4	58.7	59.0	59.4	59.8		
50	0.0	0.0	0.0	0.0	0.0	65.9	59.3	57.8	57.4	57.4	57.7	58.0	58.4	58.8	59.2	59.6	
51	0.0	0.0	0.0	0.0	86.3	59.5	57.2	56.6	56.6	56.9	57.3	57.7	58.1	58.6	59.0	59.4	
52	0.0	0.0	0.0	0.0	60.0	56.7	55.8	55.7	56.0	56.5	56.9	57.4	57.9	58.4	58.9	59.3	
53	0.0	0.0	0.0	67.3	56.5	55.0	54.8	55.1	55.6	56.1	56.7	57.2	57.8	58.3	58.8	59.2	
54	0.0	0.0	0.0	57.2	54.2	53.8	54.1	54.6	55.2	55.8	56.4	57.0	57.6	58.2	58.7	59.1	
55	0.0	0.0	61.7	53.7	52.8	53.0	53.5	54.2	54.9	55.6	56.3	56.9	57.5	58.1	58.6	59.1	
56	0.0	0.0	54.0	51.8	51.8	52.3	53.1	53.9	54.7	55.4	56.1	56.8	57.4	58.0	58.5	59.0	
57	0.0	58.2	51.0	50.5	51.0	51.9	52.7	53.6	54.5	55.2	56.0	56.7	57.3	57.9	58.4	59.0	
58	0.0	51.0	49.2	49.6	50.5	51.5	52.3	53.4	54.3	55.1	55.9	56.6	57.2	57.8	58.4	58.9	
59	56.2	48.0	48.0	48.9	50.0	51.1	52.2	53.2	54.1	55.0	55.8	56.5	57.2	57.8	58.3	58.9	
60	47.8	46.3	47.1	48.4	49.7	50.9	52.0	53.1	54.0	54.9	55.7	56.4	57.1	57.7	58.3	58.8	
61	44.8	45.2	46.5	48.0	49.4	50.7	51.9	52.9	53.9	54.8	55.6	56.4	57.1	57.7	58.3	58.8	
62	43.0	44.3	46.0	47.6	49.1	50.5	51.7	52.8	53.8	54.7	55.6	56.3	57.0	57.7	58.2	58.8	

OXFORD

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.54

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	20.5	18.5	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	17.5	16.7	16.3	16.1	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	17.2	15.9	15.4	15.3	15.2	15.2	15.1	
15	0.0	0.0	0.0	0.0	0.0	0.0	21.1	15.7	14.7	14.4	14.4	14.4	14.5	14.6	14.7	14.9	
16	0.0	0.0	0.0	0.0	29.0	14.7	13.7	13.5	13.5	13.6	13.7	13.9	14.1	14.3	14.5	14.7	
17	0.0	0.0	0.0	14.2	12.7	12.4	12.5	12.7	12.9	13.2	13.4	13.7	13.9	14.1	14.3	14.6	
18	0.0	26.3	11.7	11.3	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5	13.8	14.0	14.3	14.5	
19	12.2	10.1	10.2	10.5	10.9	11.3	11.7	12.1	12.5	12.8	13.1	13.4	13.7	14.0	14.2	14.4	
20	8.8	9.1	9.6	10.2	10.7	11.1	11.6	12.0	12.4	12.7	13.0	13.4	13.6	13.9	14.2	14.4	
21	8.0	8.7	9.3	9.9	10.5	11.0	11.5	11.9	12.3	12.7	13.0	13.3	13.6	13.9	14.1	14.4	
22	7.7	8.5	9.2	9.8	10.4	10.9	11.4	11.8	12.2	12.6	13.0	13.3	13.6	13.9	14.1	14.3	
23	7.5	8.3	9.1	9.7	10.3	10.9	11.4	11.8	12.2	12.6	12.9	13.3	13.6	13.8	14.1	14.3	
24	7.4	8.2	9.0	9.7	10.3	10.8	11.3	11.8	12.2	12.6	12.9	13.2	13.5	13.8	14.1	14.3	
25	7.3	8.2	9.0	9.6	10.2	10.8	11.3	11.8	12.2	12.6	12.9	13.2	13.5	13.8	14.1	14.3	
26	7.3	8.1	8.9	9.6	10.2	10.8	11.3	11.7	12.2	12.5	12.9	13.2	13.5	13.8	14.1	14.3	
27	7.2	8.1	8.9	9.6	10.2	10.8	11.3	11.7	12.2	12.5	12.9	13.2	13.5	13.8	14.1	14.3	
28	7.2	8.1	8.9	9.6	10.2	10.8	11.3	11.7	12.1	12.5	12.9	13.2	13.5	13.8	14.1	14.3	
29	7.2	8.1	8.9	9.6	10.2	10.7	11.3	11.7	12.1	12.5	12.9	13.2	13.5	13.8	14.1	14.3	
30	7.2	8.1	8.9	9.6	10.2	10.7	11.3	11.7	12.1	12.5	12.9	13.2	13.5	13.8	14.1	14.3	
31	7.2	8.1	8.9	9.6	10.2	10.7	11.2	11.7	12.1	12.5	12.9	13.2	13.5	13.8	14.1	14.3	
32	7.2	8.1	8.8	9.5	10.2	10.7	11.2	11.7	12.1	12.5	12.9	13.2	13.5	13.8	14.1	14.3	

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MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.55

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	20.2	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	19.3	17.7	17.0	16.7	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	17.1	16.2	15.9	15.7	15.7	15.7	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	15.7	15.1	14.9	14.9	14.9	15.0	15.1	15.2	
16	0.0	0.0	0.0	0.0	0.0	17.1	14.6	14.1	14.0	14.0	14.1	14.3	14.5	14.6	14.8	15.0	
17	0.0	0.0	0.0	19.7	13.7	13.1	13.0	13.1	13.3	13.5	13.7	14.0	14.2	14.4	14.6	14.9	
18	0.0	0.0	13.4	12.0	11.9	12.1	12.4	12.6	12.9	13.2	13.5	13.8	14.1	14.3	14.5	14.8	
19	0.0	11.1	10.7	10.9	11.3	11.6	12.0	12.4	12.7	13.1	13.4	13.7	14.0	14.2	14.5	14.7	
20	9.5	9.6	10.0	10.5	10.9	11.4	11.8	12.2	12.6	13.0	13.3	13.6	13.9	14.2	14.4	14.7	
21	8.4	9.0	9.6	10.2	10.7	11.2	11.7	12.1	12.5	12.9	13.3	13.6	13.9	14.1	14.4	14.6	
22	7.9	8.7	9.4	10.0	10.6	11.2	11.6	12.1	12.5	12.9	13.2	13.5	13.8	14.1	14.4	14.6	
23	7.7	8.5	9.3	9.9	10.5	11.1	11.6	12.0	12.4	12.8	13.2	13.5	13.8	14.1	14.4	14.6	
24	7.6	8.4	9.2	9.9	10.5	11.0	11.5	12.0	12.4	12.8	13.2	13.5	13.8	14.1	14.5	14.6	
25	7.5	8.4	9.1	9.8	10.5	11.0	11.5	12.0	12.4	12.8	13.1	13.5	13.8	14.1	14.3	14.6	
26	7.4	8.3	9.1	9.8	10.4	11.0	11.5	12.0	12.4	12.8	13.1	13.5	13.8	14.1	14.3	14.6	
27	7.4	8.3	9.1	9.8	10.4	11.0	11.5	12.0	12.4	12.8	13.1	13.5	13.8	14.1	14.3	14.6	
28	7.4	8.3	9.1	9.8	10.4	11.0	11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.1	14.3	14.6	
29	7.3	8.2	9.0	9.7	10.4	11.0	11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.1	14.3	14.6	
30	7.3	8.2	9.0	9.7	10.4	11.0	11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.1	14.3	14.6	
31	7.3	8.2	9.0	9.7	10.4	10.9	11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.1	14.3	14.6	
32	7.3	8.2	9.0	9.7	10.4	10.9	11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.1	14.3	14.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.55

OXFORD FABRICS



WARP
COVER
FACTOR

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BETA

(K1)	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	19.1	17.9	17.4
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	18.9	17.2	16.6	16.3	16.2	16.1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	17.1	15.9	15.5	15.4	15.3	15.4	15.5	15.6
16	0.0	0.0	0.0	0.0	0.0	28.5	16.0	14.9	14.5	14.5	14.5	14.7	14.8	15.0	15.1	15.3
17	0.0	0.0	0.0	0.0	15.4	13.9	13.5	13.5	13.7	13.9	14.1	14.3	14.5	14.7	15.0	15.2
18	0.0	0.0	18.4	13.0	12.5	12.5	12.7	13.0	13.3	13.5	13.8	14.1	14.3	14.6	14.8	15.1
19	0.0	12.9	11.4	11.4	11.6	12.0	12.3	12.7	13.0	13.4	13.7	14.0	14.2	14.5	14.8	15.0
20	10.6	10.1	10.4	10.8	11.2	11.7	12.1	12.5	12.9	13.2	13.6	13.9	14.2	14.4	14.7	14.9
21	8.8	9.3	9.9	10.5	11.0	11.5	12.0	12.4	12.8	13.2	13.5	13.8	14.1	14.4	14.7	14.9
22	8.2	9.0	9.6	10.3	10.9	11.4	11.9	12.3	12.7	13.1	13.5	13.8	14.1	14.4	14.6	14.9
23	7.9	8.8	9.5	10.2	10.8	11.3	11.8	12.3	12.7	13.1	13.4	13.8	14.1	14.4	14.6	14.9
24	7.8	8.6	9.4	10.1	10.7	11.3	11.8	12.2	12.7	13.0	13.4	13.7	14.0	14.3	14.6	14.9
25	7.7	8.5	9.3	10.0	10.7	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8
26	7.6	8.5	9.3	10.0	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8
27	7.5	8.4	9.2	10.0	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8
28	7.5	8.4	9.2	9.9	10.6	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8
29	7.5	8.4	9.2	9.9	10.6	11.1	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8
30	7.5	8.4	9.2	9.9	10.6	11.1	11.7	12.1	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8
31	7.4	8.4	9.2	9.9	10.6	11.1	11.7	12.1	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8
32	7.4	8.4	9.2	9.9	10.5	11.1	11.7	12.1	12.6	13.0	13.3	13.7	14.0	14.3	14.6	14.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.65

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.66

OXFORD FABRICS



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best available copy.

WARP
COVER
FACTOR

BETA

(K1)	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	22.2
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	19.7	18.7	18.3
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.2	19.7	18.2	17.6	17.3	17.2	17.2
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	18.3	17.0	16.5	16.4	16.4	16.4	16.5	16.6
17	0.0	0.0	0.0	0.0	0.0	0.0	17.5	16.0	15.6	15.5	15.5	15.7	15.8	16.0	16.2	16.4
18	0.0	0.0	0.0	0.0	17.7	15.1	14.6	14.6	14.7	14.8	15.1	15.3	15.5	15.7	16.0	16.2
19	0.0	0.0	0.0	14.6	13.6	13.5	13.7	13.9	14.2	14.5	14.8	15.1	15.3	15.6	15.8	16.1
20	0.0	13.0	12.7	12.4	12.6	12.9	13.2	13.6	13.9	14.3	14.6	14.9	15.2	15.5	15.8	16.0
21	13.5	11.2	11.3	11.7	12.1	12.5	13.0	13.4	13.8	14.2	14.5	14.8	15.1	15.4	15.7	15.9
22	9.8	10.2	10.7	11.3	11.8	12.3	12.8	13.3	13.7	14.1	14.4	14.8	15.1	15.4	15.7	15.9
23	9.0	9.7	10.4	11.0	11.6	12.2	12.7	13.2	13.6	14.0	14.4	14.7	15.0	15.3	15.6	15.9
24	8.6	9.4	10.2	10.9	11.5	12.1	12.6	13.1	13.6	14.0	14.3	14.7	15.0	15.3	15.6	15.9
25	8.4	9.3	10.1	10.8	11.4	12.0	12.6	13.1	13.5	13.9	14.3	14.7	15.0	15.3	15.6	15.9
26	8.2	9.2	10.0	10.7	11.4	12.0	12.5	13.0	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.8
27	8.1	9.1	9.9	10.7	11.3	12.0	12.5	13.0	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.8
28	8.1	9.0	9.9	10.6	11.3	11.9	12.5	13.0	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.8
29	8.0	9.0	9.9	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.3	14.6	15.0	15.3	15.6	15.8
30	8.0	9.0	9.8	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.3	14.6	15.0	15.3	15.6	15.8
31	8.0	9.0	9.8	10.6	11.3	11.9	12.5	13.0	13.4	13.9	14.2	14.6	14.9	15.3	15.6	15.8
32	8.0	8.9	9.8	10.6	11.3	11.9	12.4	13.0	13.4	13.9	14.2	14.6	14.9	15.3	15.5	15.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.67

OXFORD FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.2	23.4
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6	20.3	19.2	18.6
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	18.7	17.9	17.6	17.4	17.4
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	17.5	16.9	16.6	16.6	16.6	16.7	16.8
17	0.0	0.0	0.0	0.0	0.0	0.0	18.5	16.5	15.9	15.7	15.8	15.9	16.0	16.2	16.3	16.5
18	0.0	0.0	0.0	0.0	19.9	15.6	14.9	14.8	14.9	15.0	15.2	15.4	15.7	15.9	16.1	16.3
19	0.0	0.0	0.0	15.4	14.0	13.8	13.9	14.1	14.4	14.6	14.9	15.2	15.5	15.7	16.0	16.2
20	0.0	0.0	13.2	12.7	12.8	13.1	13.4	13.7	14.1	14.4	14.7	15.1	15.3	15.6	15.9	16.1
21	17.2	11.6	11.5	11.8	12.2	12.7	13.1	13.5	13.9	14.3	14.6	15.0	15.3	15.5	15.8	16.1
22	10.1	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.8	14.2	14.5	14.9	15.2	15.5	15.9	16.0
23	9.2	9.8	10.5	11.2	11.7	12.3	12.9	13.3	13.7	14.1	14.5	14.9	15.2	15.5	15.7	16.0
24	8.7	9.5	10.3	11.0	11.6	12.2	12.7	13.2	13.7	14.1	14.5	14.8	15.1	15.4	15.7	16.0
25	8.5	9.4	10.2	10.9	11.5	12.1	12.7	13.2	13.6	14.0	14.4	14.8	15.1	15.4	15.7	16.0
26	8.3	9.2	10.1	10.8	11.5	12.1	12.6	13.1	13.6	14.0	14.4	14.8	15.1	15.4	15.7	16.0
27	8.2	9.2	10.0	10.8	11.4	12.1	12.6	13.1	13.6	14.0	14.4	14.7	15.1	15.4	15.7	16.0
28	8.2	9.1	10.0	10.7	11.4	12.0	12.6	13.1	13.6	14.0	14.4	14.7	15.1	15.4	15.7	16.0
29	8.1	9.1	9.9	10.7	11.4	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9
30	8.1	9.0	9.9	10.7	11.4	12.0	12.6	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9
31	8.0	9.0	9.9	10.7	11.4	12.0	12.5	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9
32	8.0	9.0	9.9	10.7	11.4	12.0	12.5	13.1	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.68

OXFORD FABRICS



WARP COVER FACTOR (K1)	RETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2	21.1	19.7	19.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	19.3	18.3	17.9	17.7	17.6	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	18.0	17.2	16.9	16.8	16.8	16.9	17.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	20.0	17.0	16.2	16.0	16.0	16.0	16.2	16.3	16.5	16.7	
18	0.0	0.0	0.0	0.0	25.5	16.3	15.3	15.0	15.1	15.2	15.4	15.6	15.8	16.0	16.3	16.5	
19	0.0	0.0	0.0	16.5	14.4	14.0	14.1	14.3	14.5	14.8	15.1	15.3	15.6	15.9	16.1	16.3	
20	0.0	0.0	13.0	13.0	13.0	13.2	13.5	13.9	14.2	14.6	14.9	15.2	15.5	15.8	16.0	16.3	
21	0.0	12.1	11.8	12.0	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.1	15.4	15.7	15.9	16.2	
22	10.5	10.6	11.0	11.5	12.1	12.6	13.0	13.5	13.9	14.3	14.7	15.0	15.3	15.6	15.9	16.2	
23	9.3	10.0	10.6	11.3	11.9	12.4	12.9	13.4	13.8	14.2	14.6	15.0	15.3	15.6	15.9	16.1	
24	9.8	9.7	10.4	11.1	11.7	12.3	12.8	13.3	13.8	14.2	14.6	14.9	15.3	15.6	15.8	16.1	
25	8.6	9.5	10.3	11.0	11.6	12.2	12.8	13.3	13.7	14.1	14.5	14.9	15.2	15.5	15.8	16.1	
26	8.4	9.3	10.2	10.9	11.6	12.2	12.7	13.2	13.7	14.1	14.5	14.9	15.2	15.5	15.8	16.1	
27	9.3	9.3	10.1	10.9	11.5	12.1	12.7	13.2	13.7	14.1	14.5	14.9	15.2	15.5	15.8	16.1	
28	9.2	9.2	10.1	10.8	11.5	12.1	12.7	13.2	13.7	14.1	14.5	14.9	15.2	15.5	15.8	16.1	
29	9.2	9.2	10.0	10.8	11.5	12.1	12.7	13.2	13.6	14.1	14.5	14.8	15.2	15.5	15.9	16.1	
30	8.1	9.1	10.0	10.8	11.5	12.1	12.7	13.2	13.6	14.1	14.5	14.9	15.2	15.5	15.9	16.1	
31	8.1	9.1	10.0	10.8	11.4	12.1	12.6	13.2	13.6	14.1	14.5	14.9	15.2	15.5	15.8	16.1	
32	9.1	9.1	10.0	10.7	11.4	12.1	12.6	13.2	13.6	14.1	14.5	14.8	15.2	15.5	15.9	16.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.69

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.70

OXFORD FABRICS



best available copy

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	20.8	19.8	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	20.8	19.2	18.5	18.2	18.1	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	19.3	18.0	17.5	17.3	17.2	17.3	17.4	
17	0.0	0.0	0.0	0.0	0.0	0.0	28.5	18.3	17.0	16.5	16.4	16.4	16.5	16.7	16.8	17.0	
18	0.0	0.0	0.0	0.0	0.0	18.0	16.1	15.6	15.5	15.6	15.7	15.9	16.1	16.3	16.5	16.8	
19	0.0	0.0	0.0	22.3	15.4	14.6	14.5	14.7	14.9	15.1	15.4	15.6	15.9	16.1	16.4	16.6	
20	0.0	0.0	16.0	13.7	13.5	13.6	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.5	
21	0.0	13.4	12.3	12.4	12.7	13.1	13.5	13.9	14.3	14.7	15.0	15.3	15.6	15.9	16.2	16.5	
22	11.5	11.0	11.4	11.8	12.3	12.8	13.3	13.7	14.2	14.5	14.9	15.2	15.6	15.9	16.1	16.4	
23	9.7	10.3	10.9	11.5	12.1	12.6	13.1	13.6	14.1	14.5	14.8	15.2	15.5	15.8	16.1	16.4	
24	0.1	9.9	10.6	11.3	11.9	12.5	13.1	13.5	14.0	14.4	14.8	15.1	15.5	15.8	16.1	16.4	
25	4.3	9.7	10.5	11.2	11.8	12.4	13.0	13.5	13.9	14.4	14.8	15.1	15.5	15.8	16.1	16.3	
26	4.6	9.5	10.3	11.1	11.8	12.4	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.8	16.0	16.3	
27	4.5	9.4	10.3	11.0	11.7	12.3	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.3	
28	4.4	9.3	10.2	11.0	11.7	12.3	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.3	
29	4.3	9.3	10.2	11.0	11.7	12.3	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.3	
30	4.3	9.3	10.1	10.9	11.6	12.3	12.8	13.4	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3	
31	4.2	9.2	10.1	10.9	11.6	12.3	12.8	13.4	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3	
32	4.2	9.2	10.1	10.9	11.6	12.2	12.8	13.3	13.8	14.3	14.7	15.0	15.4	15.7	16.0	16.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.71

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.7	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	20.2	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.2	21.8	19.7	18.9	18.5	18.3	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6	20.1	18.4	17.8	17.6	17.5	17.5	17.5	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	17.4	16.8	16.7	16.6	16.7	16.8	17.0	17.1	
18	0.0	0.0	0.0	0.0	0.0	19.4	16.5	15.9	15.7	15.8	15.9	16.1	16.3	16.5	16.7	16.9	
19	0.0	0.0	0.0	0.0	16.0	14.9	14.8	14.8	15.0	15.3	15.5	15.9	16.0	16.3	16.5	16.7	
20	0.0	0.0	18.0	14.1	13.7	13.8	14.0	14.3	14.6	15.0	15.3	15.6	15.9	16.1	16.4	16.6	
21	0.0	14.5	12.7	12.6	12.9	13.3	13.6	14.0	14.4	14.8	15.1	15.5	15.8	16.0	16.3	16.6	
22	12.3	11.3	11.5	12.0	12.5	12.9	13.4	13.9	14.3	14.7	15.0	15.4	15.7	16.0	16.3	16.5	
23	10.0	10.4	11.0	11.6	12.2	12.8	13.3	13.7	14.2	14.6	15.0	15.3	15.6	15.9	16.2	16.5	
24	9.2	10.0	10.7	11.4	12.0	12.6	13.2	13.6	14.1	14.5	14.9	15.3	15.6	15.9	16.2	16.5	
25	8.9	9.8	10.6	11.3	11.9	12.5	13.1	13.6	14.0	14.5	14.9	15.2	15.6	15.9	16.2	16.5	
26	8.7	9.6	10.4	11.2	11.9	12.5	13.0	13.5	14.0	14.4	14.8	15.2	15.6	15.9	16.2	16.4	
27	8.5	9.5	10.4	11.1	11.8	12.4	13.0	13.5	14.0	14.4	14.8	15.2	15.5	15.9	16.2	16.4	
28	8.4	9.4	10.3	11.1	11.8	12.4	13.0	13.5	14.0	14.4	14.8	15.2	15.5	15.8	16.1	16.4	
29	8.4	9.4	10.3	11.0	11.7	12.4	13.0	13.5	14.0	14.4	14.8	15.2	15.5	15.8	16.1	16.4	
30	8.3	9.3	10.2	11.0	11.7	12.4	12.9	13.5	13.9	14.4	14.8	15.2	15.5	15.8	16.1	16.4	
31	8.3	9.3	10.2	11.0	11.7	12.3	12.9	13.5	13.9	14.4	14.8	15.2	15.5	15.8	16.1	16.4	
32	8.3	9.3	10.2	11.0	11.7	12.3	12.9	13.4	13.9	14.4	14.8	15.2	15.5	15.8	16.1	16.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 0.72

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.73

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.74

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	21.7	20.1	19.4	19.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	20.1	18.9	18.4	18.2	18.1	18.1
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	19.1	17.9	17.4	17.3	17.3	17.4	17.5	17.6
18	0.0	0.0	0.0	0.0	0.0	0.0	18.5	16.9	15.5	16.4	16.5	16.6	16.8	16.9	17.1	17.3
19	0.0	0.0	0.0	0.0	19.4	16.2	15.6	15.5	15.6	15.8	16.0	16.2	16.4	16.7	16.9	17.1
20	0.0	0.0	0.0	16.0	14.6	14.5	14.6	14.8	15.1	15.4	15.7	16.0	16.3	16.5	16.8	17.0
21	0.0	0.0	14.0	13.4	13.7	14.1	14.4	14.8	15.2	15.5	15.8	16.1	16.4	16.7	17.0	
22	25.1	12.4	12.2	12.5	12.9	13.3	13.8	14.2	14.6	15.0	15.4	15.7	16.0	16.3	16.6	16.9
23	10.9	11.0	11.5	12.0	12.6	13.1	13.6	14.1	14.5	14.9	15.3	15.7	16.0	16.3	16.6	16.9
24	9.7	10.4	11.1	11.8	12.4	12.9	13.5	14.0	14.4	14.8	15.2	15.6	15.9	16.3	16.6	16.8
25	9.2	10.1	10.9	11.6	12.2	12.8	13.4	13.9	14.4	14.8	15.2	15.6	15.9	16.2	16.5	16.8
26	9.0	9.9	10.7	11.5	12.2	12.8	13.3	13.9	14.3	14.8	15.2	15.5	15.9	16.2	16.5	16.8
27	8.8	9.8	10.6	11.4	12.1	12.7	13.3	13.8	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8
28	8.7	9.7	10.5	11.3	12.0	12.7	13.3	13.8	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8
29	8.6	9.6	10.5	11.3	12.0	12.6	13.2	13.8	14.3	14.7	15.1	15.5	15.8	16.2	16.5	16.8
30	8.5	9.6	10.5	11.3	12.0	12.6	13.2	13.8	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
31	8.5	9.5	10.4	11.2	12.0	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
32	8.5	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
33	8.4	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
34	8.4	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
35	8.4	9.5	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.8
36	8.4	9.4	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.7
37	8.4	9.4	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.7
38	8.4	9.4	10.4	11.2	11.9	12.6	13.2	13.7	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.75

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	22.6
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9	22.7	20.6	19.8	19.4
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	20.9	19.3	18.7	18.4	18.3	18.3
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	19.8	18.3	17.7	17.5	17.5	17.5	17.6	17.8
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	17.4	16.8	16.6	16.7	16.3	16.9	17.1	17.5
19	0.0	0.0	0.0	0.0	22.1	16.7	15.9	15.7	15.8	15.9	16.1	16.4	16.6	16.8	17.1	17.3
20	0.0	0.0	0.0	17.0	15.0	14.7	14.8	15.0	15.2	15.5	15.8	16.1	16.4	16.7	16.9	17.2
21	0.0	0.0	14.6	13.6	13.7	13.9	14.2	14.6	14.9	15.3	15.6	15.9	16.3	16.5	16.8	17.1
22	0.0	12.8	12.4	12.6	13.0	13.5	13.9	14.3	14.7	15.1	15.5	15.8	16.2	16.5	16.7	17.0
23	11.3	11.2	11.6	12.2	12.7	13.2	13.7	14.2	14.6	15.0	15.4	15.8	16.1	16.4	16.7	17.0
24	9.9	10.5	11.2	11.9	12.5	13.1	13.6	14.1	14.5	15.0	15.3	15.7	16.1	16.4	16.7	16.9
25	9.4	10.2	11.0	11.7	12.3	12.9	13.5	14.0	14.5	14.9	15.3	15.7	16.0	16.3	16.6	16.9
26	9.1	10.0	10.8	11.6	12.2	12.9	13.4	14.0	14.4	14.9	15.3	15.6	16.0	16.3	16.6	16.9
27	8.9	9.8	10.7	11.5	12.2	12.8	13.4	13.9	14.4	14.8	15.2	15.6	16.0	16.3	16.6	16.9
28	8.7	9.7	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.8	15.2	15.6	16.0	16.3	16.6	16.9
29	8.7	9.7	10.6	11.4	12.1	12.7	13.3	13.9	14.4	14.8	15.2	15.6	16.0	16.3	16.6	16.9
30	8.6	9.6	10.5	11.3	12.1	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9
31	8.6	9.6	10.5	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9
32	8.5	9.6	10.5	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9
33	8.5	9.5	10.5	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9
34	8.5	9.5	10.5	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9
35	8.5	9.5	10.4	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9
36	8.5	9.5	10.4	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9
37	8.5	9.5	10.4	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9
38	8.4	9.5	10.4	11.3	12.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.76

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	23.4	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	21.2	20.2	19.7	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.1	21.8	19.8	19.0	18.7	18.5	18.5	18.5	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	18.7	18.0	17.8	17.7	17.7	17.8	17.9	
18	0.0	0.0	0.0	0.0	0.0	20.8	17.8	17.1	16.9	16.9	16.9	16.9	17.1	17.2	17.4	17.6	
19	0.0	0.0	0.0	0.0	30.3	17.3	16.2	15.9	16.0	16.1	16.3	16.5	16.7	17.0	17.2	17.4	
20	0.0	0.0	0.0	18.4	15.4	15.0	15.0	15.1	15.4	15.7	16.0	16.2	16.5	16.8	17.0	17.3	
21	0.0	0.0	15.4	14.0	13.9	14.1	14.4	14.7	15.1	15.4	15.8	16.1	16.4	16.7	16.9	17.2	
22	0.0	13.4	12.7	12.8	13.2	13.6	14.0	14.5	14.9	15.3	15.6	16.0	16.3	16.6	16.9	17.1	
23	11.8	11.4	11.8	12.3	12.8	13.3	13.8	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.1	
24	10.1	10.7	11.3	12.0	12.6	13.2	13.7	14.2	14.6	15.1	15.5	15.8	16.2	16.5	16.8	17.1	
25	9.5	10.3	11.1	11.8	12.4	13.0	13.6	14.1	14.6	15.0	15.4	15.8	16.1	16.5	16.8	17.0	
26	9.2	10.1	10.9	11.7	12.3	13.0	13.5	14.1	14.5	15.0	15.4	15.8	16.1	16.4	16.7	17.0	
27	9.0	9.9	10.8	11.6	12.3	12.9	13.5	14.0	14.5	14.9	15.4	15.7	16.1	16.4	16.7	17.0	
28	8.8	9.8	10.7	11.5	12.2	12.9	13.4	14.0	14.5	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
29	8.7	9.8	10.7	11.5	12.2	12.8	13.4	14.0	14.5	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
30	8.7	9.7	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.1	16.4	16.7	17.0	
31	8.6	9.7	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
32	8.5	9.6	10.6	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
33	8.6	9.6	10.5	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
34	8.5	9.6	10.5	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
35	8.5	9.6	10.5	11.3	12.1	12.7	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
36	8.5	9.6	10.5	11.3	12.1	12.7	13.3	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
37	8.5	9.6	10.5	11.3	12.1	12.7	13.3	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	
38	8.5	9.6	10.5	11.3	12.1	12.7	13.3	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.77

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.7	24.4	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	21.9	20.6	20.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	20.3	19.4	19.0	18.8	18.7		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	19.2	18.4	18.0	17.9	17.9	18.0	18.1	
18	0.0	0.0	0.0	0.0	0.0	22.8	18.4	17.4	17.1	17.1	17.1	17.1	17.2	17.4	17.6	17.8	
19	0.0	0.0	0.0	0.0	18.1	16.6	16.2	16.2	16.3	16.4	16.4	16.7	16.9	17.1	17.3	17.5	
20	0.0	0.0	0.0	20.9	15.9	15.2	15.2	15.3	15.6	15.8	16.1	16.4	16.6	16.9	17.2	17.4	
21	0.0	0.0	16.5	14.3	14.1	14.3	14.5	14.9	15.2	15.5	15.9	16.2	16.5	16.8	17.1	17.3	
22	0.0	14.2	13.0	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.7	16.1	16.4	16.7	17.0	17.3	
23	12.4	11.7	12.0	12.4	13.0	13.5	14.0	14.4	14.8	15.3	15.6	16.0	16.3	16.6	16.9	17.2	
24	10.3	10.8	11.5	12.1	12.7	13.3	13.8	14.3	14.8	15.2	15.6	15.9	16.3	16.6	16.9	17.2	
25	9.6	10.4	11.2	11.9	12.5	13.1	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.6	16.9	17.2	
26	9.3	10.2	11.0	11.8	12.4	13.1	13.6	14.2	14.6	15.1	15.5	15.9	16.2	16.5	16.9	17.1	
27	9.0	10.0	10.9	11.7	12.4	13.0	13.6	14.1	14.6	15.0	15.5	15.8	16.2	16.5	16.8	17.1	
28	8.9	9.9	10.8	11.6	12.3	13.0	13.5	14.1	14.6	15.0	15.4	15.8	16.2	16.5	16.8	17.1	
29	8.8	9.8	10.7	11.5	12.3	12.9	13.5	14.1	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1	
30	8.7	9.8	10.7	11.5	12.2	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1	
31	8.7	9.7	10.7	11.5	12.2	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1	
32	8.7	9.7	10.6	11.5	12.2	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1	
33	8.6	9.7	10.6	11.4	12.2	12.8	13.5	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1	
34	8.6	9.7	10.6	11.4	12.2	12.8	13.4	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1	
35	8.6	9.7	10.6	11.4	12.2	12.8	13.4	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1	
36	8.6	9.6	10.6	11.4	12.2	12.8	13.4	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1	
37	8.6	9.6	10.6	11.4	12.2	12.4	13.4	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1	
38	8.6	9.6	10.6	11.4	12.1	12.8	13.4	14.0	14.5	15.0	15.4	15.8	16.1	16.5	16.8	17.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.78

OXFORD FABRICS

WARD COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.1 25.6	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	22.6	21.0	20.3	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	20.9	19.8	19.2	19.0	18.9	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	19.8	18.7	18.3	18.1	18.1	18.2	18.3	
18	0.0	0.0	0.0	0.0	0.0	0.0	26.5	19.0	17.8	17.4	17.3	17.3	17.4	17.6	17.7	17.9	
19	0.0	0.0	0.0	0.0	0.0	19.0	17.0	16.5	16.4	16.5	16.6	16.8	17.0	17.2	17.5	17.7	
20	0.0	0.0	0.0	27.8	16.4	15.5	15.4	15.5	15.7	16.0	16.2	16.5	16.8	17.0	17.3	17.5	
21	0.0	0.0	18.2	14.7	14.3	14.4	14.7	15.0	15.3	15.7	16.0	16.3	16.6	16.9	17.2	17.4	
22	0.0	15.3	13.3	13.2	13.5	13.9	14.3	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.1	17.4	
23	13.2	11.9	12.1	12.6	13.1	13.6	14.1	14.5	15.0	15.4	15.8	16.1	16.4	16.8	17.1	17.2	
24	10.6	11.0	11.6	12.2	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.4	16.7	17.0	17.3	
25	9.8	10.5	11.3	12.0	12.6	13.3	13.8	14.3	14.8	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
26	9.4	10.3	11.1	11.8	12.5	13.2	13.7	14.3	14.7	15.2	15.6	16.0	16.3	16.7	17.0	17.3	
27	9.1	10.1	11.0	11.7	12.5	13.1	13.7	14.2	14.7	15.1	15.6	15.9	16.3	16.6	16.9	17.2	
28	9.0	10.0	10.9	11.7	12.4	13.0	13.6	14.2	14.7	15.1	15.5	15.9	16.3	16.6	16.9	17.2	
29	8.9	9.9	10.8	11.6	12.4	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2	
30	8.8	9.8	10.8	11.6	12.3	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2	
31	8.8	9.8	10.7	11.6	12.3	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2	
32	8.7	9.8	10.7	11.5	12.3	12.9	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2	
33	8.7	9.7	10.7	11.5	12.3	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2	
34	8.7	9.7	10.7	11.5	12.3	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2	
35	8.6	9.7	10.7	11.5	12.2	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2	
36	8.6	9.7	10.6	11.5	12.2	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2	
37	8.6	9.7	10.6	11.5	12.2	12.9	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2	
38	8.6	9.7	10.6	11.5	12.2	12.9	13.5	14.1	14.6	15.0	15.5	15.9	16.2	16.6	16.9	17.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.79

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	23.5	21.5	20.7	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	21.6	20.2	19.5	19.3	19.1	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	20.4	19.1	18.6	18.4	18.3	18.4	18.4	
18	0.0	0.0	0.0	0.0	0.0	0.0	44.8	19.8	18.2	17.7	17.5	17.5	17.6	17.7	17.9	19.1	
19	0.0	0.0	0.0	0.0	0.0	20.3	17.4	16.7	16.6	16.6	16.8	17.0	17.2	17.4	17.6	17.8	
20	0.0	0.0	0.0	0.0	17.1	15.8	15.6	15.7	15.9	16.1	16.4	16.6	16.9	17.2	17.4	17.7	
21	0.0	0.0	21.7	15.2	14.6	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3	17.6	
22	0.0	16.9	13.6	13.4	13.7	14.0	14.4	14.9	15.2	15.6	16.0	16.3	16.6	16.9	17.2	17.5	
23	14.5	12.2	12.3	12.7	13.2	13.7	14.2	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2	17.4	
24	10.8	11.2	11.7	12.3	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1	17.4	
25	9.9	10.7	11.4	12.1	12.8	13.4	13.9	14.4	14.9	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
26	9.5	10.4	11.2	11.9	12.6	13.3	13.8	14.4	14.8	15.3	15.7	16.1	16.4	16.8	17.1	17.4	
27	9.2	10.2	11.1	11.8	12.5	13.2	13.8	14.3	14.8	15.2	15.7	16.1	16.4	16.7	17.1	17.4	
28	9.1	10.1	11.0	11.8	12.5	13.1	13.7	14.3	14.8	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
29	9.0	10.0	10.9	11.7	12.4	13.1	13.7	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
30	8.9	9.9	10.8	11.7	12.4	13.1	13.7	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
31	8.8	9.9	10.8	11.6	12.4	13.0	13.7	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
32	8.8	9.8	10.8	11.6	12.4	13.0	13.6	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
33	8.7	9.8	10.8	11.6	12.3	13.0	13.6	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
34	8.7	9.8	10.7	11.6	12.3	13.0	13.6	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
35	8.7	9.8	10.7	11.6	12.3	13.0	13.6	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	
36	8.7	9.8	10.7	11.6	12.3	13.0	13.6	14.2	14.7	15.2	15.6	16.0	16.3	16.7	17.0	17.3	
37	8.7	9.8	10.7	11.6	12.3	13.0	13.6	14.2	14.7	15.1	15.6	16.0	16.3	16.7	17.0	17.3	
38	8.7	9.8	10.7	11.6	12.3	13.0	13.6	14.2	14.7	15.1	15.6	16.0	16.3	16.7	17.0	17.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.80

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.1	24.6	22.1	21.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	22.4	20.6	19.9	19.5	19.4		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6	21.2	19.5	18.9	18.6	18.5	18.5	18.6		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	18.6	17.9	17.7	17.8	17.9	18.0	18.2		
19	0.0	0.0	0.0	0.0	0.0	22.2	17.9	17.0	16.8	16.9	17.1	17.3	17.5	17.7	18.0		
20	0.0	0.0	0.0	0.0	17.9	16.2	15.9	15.9	16.0	16.3	16.5	16.8	17.0	17.3	17.6	17.8	
21	0.0	0.0	0.0	15.7	14.9	14.8	15.0	15.3	15.6	15.9	16.3	16.6	16.9	17.2	17.4	17.7	
22	0.0	20.6	14.0	13.7	13.9	14.2	14.6	15.0	15.4	15.7	16.1	16.4	16.8	17.1	17.3	17.6	
23	17.0	12.6	12.5	12.9	13.4	13.3	14.3	14.3	15.2	15.6	16.0	16.3	16.7	17.0	17.3	17.6	
24	11.2	11.3	11.9	12.5	13.1	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.6	16.9	17.2	17.5	
25	10.1	10.8	11.5	12.2	12.9	13.5	14.0	14.5	15.0	15.4	15.8	16.2	16.6	16.9	17.2	17.5	
26	9.6	10.5	11.3	12.0	12.7	13.4	13.9	14.5	14.9	15.4	15.8	16.2	16.5	16.9	17.2	17.5	
27	9.3	10.3	11.1	11.9	12.6	13.2	13.9	14.4	14.9	15.3	15.8	16.2	16.5	16.9	17.2	17.5	
28	9.1	10.1	11.0	11.8	12.6	13.2	13.8	14.4	14.9	15.2	15.7	16.1	16.5	16.8	17.2	17.5	
29	9.0	10.1	11.0	11.8	12.5	13.2	13.8	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
30	8.9	10.0	10.9	11.7	12.5	13.2	13.8	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
31	8.9	9.9	10.9	11.7	12.5	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
32	8.8	9.9	10.9	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
33	8.8	9.9	10.8	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
34	8.8	9.9	10.3	11.7	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
35	8.8	9.8	10.8	11.6	12.4	13.1	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	
36	8.8	9.8	10.3	11.6	12.4	13.1	13.7	14.3	14.8	15.2	15.7	16.1	16.5	16.8	17.1	17.4	
37	8.7	9.8	10.8	11.6	12.4	13.1	13.7	14.3	14.8	15.2	15.7	16.1	16.5	16.8	17.1	17.4	
38	8.7	9.8	10.8	11.6	12.4	13.1	13.7	14.3	14.8	15.2	15.7	16.1	16.4	16.8	17.1	17.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.81

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.7
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	22.7	21.4
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.0	23.4	21.1	20.2	19.8	19.6	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	20.0	19.2	18.9	18.7	18.7	18.8	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	19.1	18.2	18.0	17.9	17.9	18.1	18.2	18.3	
19	0.0	0.0	0.0	0.0	0.0	25.7	18.5	17.4	17.1	17.0	17.1	17.3	17.5	17.7	17.9	18.1	
20	0.0	0.0	0.0	0.0	19.0	16.6	16.1	16.1	16.2	16.4	16.7	16.9	17.2	17.4	17.7	17.9	
21	0.0	0.0	0.0	16.3	15.2	15.0	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3	17.6	17.8	
22	0.0	0.0	14.5	13.9	14.0	14.4	14.7	15.1	15.5	15.9	16.2	16.6	16.9	17.2	17.5	17.7	
23	34.8	13.0	12.7	13.1	13.5	14.0	14.4	14.9	15.3	15.7	16.1	16.5	16.8	17.1	17.4	17.7	
24	11.5	11.5	12.0	12.6	13.2	13.7	14.2	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.4	17.6	
25	10.3	10.9	11.6	12.3	13.0	13.6	14.1	14.6	15.1	15.5	15.9	16.3	16.7	17.0	17.3	17.6	
26	9.7	10.6	11.4	12.1	12.8	13.5	14.0	14.6	15.0	15.5	15.9	16.3	16.6	17.0	17.3	17.6	
27	9.4	10.4	11.2	12.0	12.7	13.4	14.0	14.5	15.0	15.5	15.9	16.3	16.6	17.0	17.3	17.6	
28	9.2	10.2	11.1	11.9	12.7	13.3	13.9	14.5	15.0	15.4	15.8	16.2	16.6	16.9	17.3	17.6	
29	9.1	10.1	11.1	11.9	12.6	13.3	13.9	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.3	17.6	
30	9.0	10.1	11.0	11.8	12.6	13.2	13.9	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5	
31	8.9	10.0	11.0	11.8	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5	
32	8.9	10.0	10.9	11.8	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5	
33	8.9	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5	
34	8.8	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5	
35	8.8	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.3	15.8	16.2	16.6	16.9	17.2	17.5	
36	8.8	9.9	10.9	11.7	12.5	13.2	13.8	14.4	14.9	15.3	15.8	16.2	16.6	16.9	17.2	17.5	
37	8.8	9.9	10.8	11.7	12.5	13.2	13.8	14.3	14.9	15.3	15.8	16.2	16.6	16.9	17.2	17.5	
38	8.8	9.9	10.8	11.7	12.5	13.2	13.8	14.3	14.9	15.3	15.8	16.2	16.6	16.9	17.2	17.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.82

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.83

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	24.2	22.4	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	22.3	21.0	20.4	20.1		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	21.0	19.9	19.4	19.2	19.1	19.1	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	20.2	18.9	18.5	18.3	18.3	18.4	18.5	18.7	
19	0.0	0.0	0.0	0.0	0.0	0.0	20.0	18.1	17.6	17.4	17.5	17.6	17.8	18.0	18.2	18.4	
20	0.0	0.0	0.0	0.0	23.0	17.5	16.7	16.5	16.6	16.7	17.0	17.2	17.4	17.7	17.9	18.2	
21	0.0	0.0	0.0	18.2	15.9	15.5	15.6	15.8	16.1	16.3	16.7	17.0	17.2	17.5	17.8	18.1	
22	0.0	0.0	15.8	14.5	14.4	14.7	15.0	15.4	15.7	16.1	16.5	16.8	17.1	17.4	17.7	18.0	
23	0.0	14.0	13.2	13.4	13.8	14.2	14.7	15.1	15.5	15.9	16.3	16.7	17.0	17.3	17.6	17.9	
24	12.4	12.0	12.3	12.9	13.4	13.9	14.5	14.9	15.4	15.8	16.2	16.6	16.9	17.3	17.6	17.9	
25	10.6	11.2	11.9	12.5	13.2	13.8	14.3	14.8	15.3	15.8	16.2	16.5	16.9	17.2	17.5	17.8	
26	10.0	10.8	11.6	12.3	13.0	13.6	14.2	14.8	15.2	15.7	16.1	16.5	16.9	17.2	17.5	17.8	
27	9.6	10.6	11.4	12.2	12.9	13.6	14.2	14.7	15.2	15.7	16.1	16.5	16.8	17.2	17.5	17.8	
28	9.4	10.4	11.3	12.1	12.8	13.5	14.1	14.7	15.2	15.6	16.0	16.4	16.8	17.2	17.5	17.8	
29	9.3	10.3	11.2	12.0	12.8	13.5	14.1	14.6	15.1	15.6	16.0	16.4	16.8	17.1	17.5	17.8	
30	9.2	10.2	11.1	12.0	12.7	13.4	14.0	14.6	15.1	15.6	16.0	16.4	16.8	17.1	17.5	17.8	
31	9.1	10.2	11.1	11.9	12.7	13.4	14.0	14.6	15.1	15.6	16.0	16.4	16.8	17.1	17.5	17.8	
32	9.0	10.1	11.1	11.9	12.7	13.4	14.0	14.6	15.1	15.6	16.0	16.4	16.8	17.1	17.4	17.8	
33	9.0	10.1	11.0	11.9	12.7	13.4	14.0	14.5	15.1	15.5	16.0	16.4	16.8	17.1	17.4	17.7	
34	9.0	10.1	11.0	11.9	12.7	13.3	14.0	14.5	15.1	15.5	16.0	16.4	16.8	17.1	17.4	17.7	
35	8.9	10.0	11.0	11.9	12.6	13.3	14.0	14.5	15.1	15.5	16.0	16.4	16.8	17.1	17.4	17.7	
36	8.9	10.0	11.0	11.9	12.6	13.3	14.0	14.5	15.1	15.5	16.0	16.4	16.8	17.1	17.4	17.7	
37	8.9	10.0	11.0	11.9	12.6	13.3	14.0	14.5	15.0	15.5	16.0	16.4	16.8	17.1	17.4	17.7	
38	8.9	10.0	11.0	11.8	12.6	13.3	13.9	14.5	15.0	15.5	16.0	16.4	16.8	17.1	17.4	17.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = C.84

OXFORD FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3	25.2	22.9
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	23.0	21.4	20.7	20.3
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	21.7	20.3	19.7	19.4	19.3	19.3
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	20.9	19.3	18.7	18.5	18.5	18.6	18.7	18.8
19	0.0	0.0	0.0	0.0	0.0	0.0	21.0	18.5	17.8	17.7	17.7	17.8	17.9	18.1	18.3	18.5
20	0.0	0.0	0.0	0.0	28.9	18.1	17.0	16.7	16.8	16.9	17.1	17.3	17.6	17.8	18.1	18.3
21	0.0	0.0	0.0	19.7	16.3	15.8	15.3	15.9	16.2	16.5	16.8	17.1	17.4	17.6	17.9	18.2
22	0.0	0.0	16.7	14.8	14.7	14.8	15.2	15.5	15.9	16.2	16.6	16.9	17.2	17.5	17.8	18.1
23	0.0	14.7	13.5	13.6	13.9	14.4	14.3	15.2	15.7	16.1	16.4	16.8	17.1	17.4	17.7	18.0
24	13.0	12.2	12.5	13.0	13.5	14.1	14.6	15.1	15.5	15.9	16.3	16.7	17.1	17.4	17.7	18.0
25	10.9	11.4	12.0	12.7	13.3	13.9	14.4	14.9	15.4	15.9	16.3	16.6	17.0	17.3	17.7	17.9
26	10.1	10.9	11.7	12.4	13.1	13.7	14.3	14.9	15.3	15.8	16.2	16.6	17.0	17.3	17.6	17.9
27	9.7	10.7	11.5	12.3	13.0	13.7	14.2	14.8	15.3	15.8	16.2	16.6	16.9	17.3	17.6	17.9
28	9.5	10.5	11.4	12.2	12.9	13.6	14.2	14.7	15.3	15.7	16.2	16.5	16.9	17.3	17.6	17.9
29	9.3	10.4	11.3	12.1	12.9	13.5	14.2	14.7	15.2	15.7	16.1	16.5	16.9	17.3	17.6	17.9
30	9.2	10.3	11.2	12.1	12.8	13.5	14.1	14.7	15.2	15.7	16.1	16.5	16.9	17.2	17.6	17.9
31	9.1	10.2	11.2	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.1	16.5	16.9	17.2	17.6	17.9
32	9.1	10.2	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.1	16.5	16.9	17.2	17.6	17.9
33	9.1	10.1	11.1	12.0	12.7	13.4	14.1	14.6	15.2	15.6	16.1	16.5	16.9	17.2	17.5	17.9
34	9.0	10.1	11.1	12.0	12.7	13.4	14.1	14.6	15.2	15.6	16.1	16.5	16.9	17.2	17.5	17.9
35	9.0	10.1	11.1	11.9	12.7	13.4	14.0	14.6	15.1	15.6	16.1	16.5	16.9	17.2	17.5	17.9
36	9.0	10.1	11.1	11.9	12.7	13.4	14.0	14.6	15.1	15.6	16.1	16.5	16.9	17.2	17.5	17.8
37	9.0	10.1	11.1	11.9	12.7	13.4	14.0	14.6	15.1	15.6	16.1	16.5	16.9	17.2	17.5	17.8
38	9.0	10.1	11.0	11.9	12.7	13.4	14.0	14.6	15.1	15.6	16.1	16.5	16.9	17.2	17.5	17.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.85

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.0	23.9	21.9	21.0	20.6
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	22.5	20.7	20.0	19.7	19.5	19.5
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	19.7	19.0	18.8	18.7	18.7	18.8	19.0
19	0.0	0.0	0.0	0.0	0.0	0.0	22.5	19.0	18.1	17.9	17.9	17.9	18.1	18.3	18.4	18.6
20	0.0	0.0	0.0	0.0	0.0	18.8	17.3	17.0	16.9	17.1	17.3	17.5	17.5	18.0	18.2	18.4
21	0.0	0.0	0.0	22.3	16.7	16.0	16.0	16.1	16.3	16.6	16.9	17.2	17.5	17.8	18.0	18.3
22	0.0	0.0	18.0	15.2	14.9	15.0	15.3	15.6	16.0	16.3	16.7	17.0	17.3	17.6	17.9	18.2
23	0.0	15.7	13.8	13.8	14.1	14.5	14.9	15.4	15.8	16.2	16.5	16.9	17.2	17.6	17.9	18.1
24	13.9	12.5	12.7	13.1	13.7	14.2	14.7	15.2	15.6	16.0	16.4	16.8	17.2	17.5	17.8	18.1
25	11.1	11.5	12.1	12.8	13.4	14.0	14.5	15.0	15.5	16.0	16.4	16.8	17.1	17.4	17.8	18.1
26	10.3	11.0	11.8	12.5	13.2	13.8	14.4	15.0	15.4	15.9	16.3	16.7	17.1	17.4	17.7	18.0
27	9.8	10.8	11.6	12.4	13.1	13.7	14.3	14.9	15.4	15.9	16.3	16.7	17.0	17.4	17.7	18.0
28	9.6	10.6	11.5	12.3	13.0	13.7	14.3	14.8	15.3	15.8	16.3	16.7	17.0	17.4	17.7	18.0
29	9.4	10.4	11.4	12.2	12.9	13.6	14.2	14.8	15.3	15.8	16.2	16.6	17.0	17.4	17.7	18.0
30	9.3	10.4	11.3	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.2	16.6	17.0	17.3	17.7	18.0
31	9.2	10.3	11.3	12.1	12.9	13.6	14.2	14.8	15.3	15.8	16.2	16.6	17.0	17.3	17.7	18.0
32	9.2	10.2	11.2	12.1	12.8	13.5	14.2	14.7	15.3	15.7	16.2	16.6	17.0	17.3	17.7	18.0
33	9.1	10.2	11.2	12.0	12.8	13.5	14.2	14.7	15.3	15.7	16.2	16.6	17.0	17.3	17.7	18.0
34	9.1	10.2	11.2	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.7	18.0
35	9.1	10.2	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.6	18.0
36	9.0	10.2	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.6	18.0
37	9.0	10.1	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.6	18.0
38	9.0	10.1	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.3	17.6	18.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY = 0.86

OXFORD FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.87

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	21.6	20.6	20.2	20.0	19.9	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	20.7	19.7	19.3	19.1	19.1	19.2	19.3	
19	0.0	0.0	0.0	0.0	0.0	0.0	28.5	20.1	18.8	18.4	18.3	18.3	18.4	18.6	18.7	18.9	
20	0.0	0.0	0.0	0.0	0.0	20.7	18.1	17.5	17.3	17.4	17.6	17.8	18.0	18.2	18.5	18.7	
21	0.0	0.0	0.0	0.0	17.9	16.6	16.4	16.5	16.7	16.9	17.2	17.5	17.7	18.0	18.3	18.5	
22	0.0	0.0	24.8	16.0	15.4	15.4	15.6	15.9	16.3	16.6	16.9	17.3	17.6	17.9	18.2	18.4	
23	0.0	19.5	14.5	14.2	14.4	14.8	15.2	15.6	16.0	16.4	16.8	17.1	17.5	17.8	18.1	18.4	
24	17.4	13.1	13.1	13.4	13.9	14.4	14.9	15.4	15.8	16.3	16.7	17.0	17.4	17.7	18.0	18.3	
25	11.7	11.9	12.4	13.0	13.6	14.2	14.7	15.3	15.7	16.2	16.6	17.0	17.3	17.7	18.0	18.3	
26	10.8	11.3	12.0	12.7	13.4	14.0	14.6	15.2	15.6	16.1	16.5	16.9	17.3	17.6	17.9	18.2	
27	10.1	11.0	11.8	12.6	13.3	13.9	14.5	15.1	15.6	16.0	16.5	16.9	17.3	17.6	17.9	18.2	
28	9.8	10.7	11.6	12.5	13.2	13.9	14.5	15.0	15.5	16.0	16.4	16.9	17.2	17.6	17.9	18.2	
29	9.6	10.6	11.5	12.4	13.1	13.8	14.4	15.0	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.2	
30	9.4	10.5	11.5	12.3	13.1	13.8	14.4	15.0	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.2	
31	9.3	10.4	11.4	12.3	13.0	13.7	14.4	14.9	15.5	15.9	16.4	16.8	17.2	17.5	17.9	18.2	
32	9.3	10.4	11.4	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2	
33	9.2	10.3	11.3	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2	
34	9.2	10.3	11.3	12.2	13.0	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2	
35	9.2	10.3	11.3	12.2	12.9	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2	
36	9.2	10.3	11.3	12.1	12.9	13.6	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2	
37	9.1	10.3	11.3	12.1	12.9	13.6	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2	
38	9.1	10.3	11.2	12.1	12.9	13.6	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.5	17.8	18.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.88

OXFORD FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.8	25.7
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	23.6	22.1	21.4
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1	22.2	21.0	20.4	20.2	20.1
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	21.3	20.0	19.5	19.3	19.3	19.3	19.4
19	0.0	0.0	0.0	0.0	0.0	0.0	45.7	20.9	19.2	18.6	18.5	18.5	18.6	18.7	18.9	19.1
20	0.0	0.0	0.0	0.0	0.0	22.1	18.5	17.7	17.6	17.6	17.7	17.9	18.1	18.4	18.6	18.8
21	0.0	0.0	0.0	0.0	18.6	16.9	16.6	16.6	16.8	17.1	17.3	17.6	17.9	18.1	18.4	18.7
22	0.0	0.0	0.0	16.6	15.6	15.6	15.8	16.1	16.4	16.7	17.1	17.4	17.7	19.0	18.3	18.6
23	0.0	27.7	14.9	14.4	14.6	14.9	15.3	15.7	16.1	16.5	16.9	17.2	17.6	17.9	18.2	18.5
24	25.5	13.5	13.3	13.6	14.1	14.5	15.0	15.5	16.0	16.4	16.8	17.1	17.5	17.8	18.1	18.4
25	12.0	12.0	12.5	13.1	13.7	14.3	14.8	15.4	15.8	16.3	16.7	17.1	17.4	17.8	18.1	18.4
26	10.7	11.4	12.1	12.9	13.5	14.1	14.7	15.3	15.7	16.2	16.6	17.0	17.4	17.7	18.1	18.4
27	10.2	11.1	11.9	12.7	13.4	14.0	14.6	15.2	15.7	16.1	16.6	17.0	17.4	17.7	18.0	18.3
28	9.8	10.8	11.7	12.5	13.3	13.9	14.6	15.1	15.6	16.1	16.5	17.0	17.3	17.7	18.0	18.3
29	9.6	10.7	11.6	12.5	13.2	13.9	14.5	15.1	15.6	16.1	16.5	16.9	17.3	17.7	18.0	18.3
30	9.5	10.6	11.5	12.4	13.2	13.8	14.5	15.0	15.6	16.1	16.5	16.9	17.3	17.7	18.0	18.3
31	9.4	10.5	11.5	12.3	13.1	13.8	14.4	15.0	15.6	16.0	16.5	16.9	17.3	17.6	18.0	18.3
32	9.3	10.5	11.4	12.3	13.1	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3
33	9.3	10.4	11.4	12.3	13.1	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3
34	9.3	10.4	11.4	12.3	13.0	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3
35	9.2	10.4	11.3	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3
36	9.2	10.3	11.3	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0	18.3
37	9.2	10.3	11.3	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.4	16.9	17.3	17.6	18.0	18.3
38	9.2	10.3	11.3	12.2	13.0	13.7	14.4	15.0	15.5	16.0	16.4	16.9	17.3	17.6	18.0	18.3

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.89

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	26.8
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	24.3	22.5	21.8
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2	22.9	21.4	20.7	20.4	20.3
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	21.9	20.4	19.8	19.5	19.5	19.5	19.6
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	19.6	18.9	18.7	18.7	18.7	18.9	19.0	19.2
20	0.0	0.0	0.0	0.0	0.0	24.3	19.0	18.0	17.8	17.8	17.9	18.1	18.3	18.5	18.7	18.9
21	0.0	0.0	0.0	0.0	0.0	19.6	17.3	16.8	17.0	17.2	17.5	17.7	18.0	18.3	18.5	18.8
22	0.0	0.0	0.0	0.0	0.0	17.2	15.9	15.8	16.2	16.5	16.9	17.2	17.5	17.8	18.1	18.4
23	0.0	0.0	15.4	14.7	14.8	15.1	15.5	15.8	16.2	16.6	17.0	17.4	17.7	18.0	18.3	18.6
24	0.0	13.9	13.5	13.8	14.2	14.7	15.2	15.6	16.1	16.5	16.9	17.3	17.6	17.9	18.2	18.5
25	12.4	12.2	12.7	13.3	13.8	14.4	15.0	15.5	15.9	16.4	16.8	17.2	17.5	17.9	18.2	18.5
26	10.9	11.5	12.3	13.0	13.6	14.2	14.8	15.4	15.8	16.3	16.7	17.1	17.5	17.8	18.2	18.5
27	10.3	11.2	12.0	12.8	13.5	14.1	14.7	15.3	15.8	16.2	16.7	17.1	17.5	17.8	18.1	18.4
28	9.9	10.9	11.8	12.6	13.4	14.0	14.7	15.2	15.7	16.2	16.6	17.1	17.4	17.8	18.1	18.4
29	9.7	10.8	11.7	12.5	13.3	14.0	14.6	15.2	15.7	16.2	16.6	17.0	17.4	17.8	18.1	18.4
30	9.6	10.7	11.6	12.5	13.2	13.9	14.6	15.1	15.7	16.2	16.6	17.0	17.4	17.8	18.1	18.4
31	9.5	10.6	11.5	12.4	13.2	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
32	9.4	10.5	11.5	12.4	13.2	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
33	9.4	10.5	11.5	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
34	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.1	18.4
35	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.5	17.0	17.4	17.7	18.1	18.4
36	9.3	10.4	11.4	12.3	13.1	13.8	14.5	15.1	15.6	16.1	16.5	17.0	17.4	17.7	18.1	18.4
37	9.2	10.4	11.4	12.3	13.1	13.8	14.5	15.0	15.6	16.1	16.5	17.0	17.4	17.7	18.1	18.4
38	9.2	10.4	11.4	12.3	13.1	13.8	14.4	15.0	15.6	16.1	16.5	17.0	17.4	17.7	18.1	18.4

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.90

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.2	25.2	23.0	22.1	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	23.6	21.8	21.0	20.7	20.5	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	22.7	20.8	20.1	19.8	19.7	19.7	19.8	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8	20.0	19.2	18.9	18.8	18.9	19.0	19.2	19.3	
20	0.0	0.0	0.0	0.0	0.0	28.5	19.6	18.4	18.0	18.0	18.1	18.2	18.4	18.6	18.9	19.1	
21	0.0	0.0	0.0	0.0	20.8	17.7	17.1	17.0	17.1	17.3	17.6	17.9	18.1	18.4	18.7	18.9	
22	0.0	0.0	0.0	18.0	16.2	16.0	16.1	16.4	16.7	17.0	17.3	17.6	17.9	18.2	18.5	18.8	
23	0.0	0.0	16.0	15.0	15.0	15.2	15.6	16.0	16.4	16.8	17.1	17.5	17.8	18.1	18.4	18.7	
24	0.0	14.4	13.7	13.9	14.3	14.8	15.3	15.7	16.2	16.6	17.0	17.4	17.7	18.0	18.4	18.6	
25	12.9	12.5	12.8	13.4	14.0	14.5	15.1	15.6	16.0	16.5	16.9	17.3	17.6	18.0	18.3	18.6	
26	11.1	11.7	12.4	13.1	13.7	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.6	17.9	18.3	18.6	
27	10.4	11.3	12.1	12.9	13.6	14.2	14.8	15.4	15.9	16.3	16.8	17.2	17.6	17.9	18.2	18.5	
28	10.0	11.0	11.9	12.7	13.5	14.1	14.7	15.3	15.8	16.3	16.7	17.2	17.5	17.9	18.2	18.5	
29	9.8	10.8	11.8	12.6	13.4	14.1	14.7	15.3	15.8	16.3	16.7	17.1	17.5	17.9	18.2	18.5	
30	9.7	10.7	11.7	12.5	13.3	14.0	14.6	15.2	15.8	16.2	16.7	17.1	17.5	17.9	18.2	18.5	
31	9.6	10.6	11.6	12.5	13.3	14.0	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.8	18.2	18.5	
32	9.5	10.6	11.6	12.5	13.2	13.9	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.8	18.2	18.5	
33	9.4	10.5	11.5	12.4	13.2	13.9	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.8	18.2	18.5	
34	9.4	10.5	11.5	12.4	13.2	13.9	14.6	15.2	15.7	16.2	16.6	17.1	17.5	17.8	18.2	18.5	
35	9.3	10.5	11.5	12.4	13.2	13.9	14.6	15.1	15.7	16.2	16.6	17.1	17.5	17.8	18	18.5	
36	9.3	10.5	11.5	12.4	13.2	13.9	14.5	15.1	15.7	16.2	16.6	17.1	17.5	17.8	18.2	18.5	
37	9.3	10.4	11.5	12.4	13.2	13.9	14.5	15.1	15.7	16.2	16.6	17.1	17.5	17.8	18.2	18.5	
38	9.3	10.4	11.4	12.3	13.1	13.9	14.5	15.1	15.7	16.2	16.6	17.1	17.5	17.8	18.2	18.5	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.91

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.1	26.2	23.5	22.4	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	24.5	22.2	21.3	20.9	20.7	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	21.2	20.4	20.0	19.9	19.9	19.9	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	20.5	19.5	19.1	19.0	19.1	19.2	19.3	19.5	
20	0.0	0.0	0.0	0.0	0.0	64.6	20.3	18.7	18.3	18.2	18.2	18.4	18.6	18.8	19.0	19.2	
21	0.0	0.0	0.0	0.0	22.7	18.1	17.4	17.2	17.3	17.5	17.7	18.0	18.3	18.5	18.8	19.0	
22	0.0	0.0	0.0	19.0	16.6	16.2	16.3	16.5	16.8	17.1	17.4	17.7	18.1	18.3	18.6	18.9	
23	0.0	0.0	16.7	15.2	15.2	15.4	15.7	16.1	16.5	16.9	17.2	17.6	17.9	18.2	18.5	18.8	
24	0.0	15.0	14.0	14.1	14.5	14.9	15.4	15.8	16.3	16.7	17.1	17.5	17.8	18.2	18.5	18.8	
25	13.5	12.7	13.0	13.5	14.1	14.6	15.2	15.7	16.1	16.6	17.0	17.4	17.8	18.1	18.4	18.7	
26	11.3	11.8	12.5	13.2	13.8	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.7	18.0	18.4	18.7	
27	10.6	11.4	12.2	13.0	13.7	14.3	14.9	15.5	16.0	16.4	16.9	17.3	17.7	18.0	18.3	18.7	
28	10.1	11.1	12.0	12.8	13.5	14.2	14.8	15.4	15.9	16.4	16.8	17.3	17.6	18.0	18.3	18.6	
29	9.9	10.9	11.9	12.7	13.5	14.2	14.8	15.4	15.9	16.4	16.8	17.2	17.6	18.0	18.3	18.6	
30	9.7	10.8	11.8	12.6	13.4	14.1	14.7	15.3	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.6	
31	9.6	10.7	11.7	12.6	13.4	14.1	14.7	15.3	15.8	16.3	16.8	17.2	17.6	17.9	18.3	18.6	
32	9.5	10.7	11.6	12.5	13.3	14.0	14.7	15.3	15.8	16.3	16.8	17.2	17.6	17.9	18.3	18.6	
33	9.5	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.8	16.3	16.8	17.2	17.6	17.9	18.3	18.6	
34	9.4	10.6	11.6	12.5	13.3	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
35	9.4	10.5	11.6	12.4	13.3	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
36	9.4	10.5	11.5	12.4	13.2	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	17.9	18.3	18.6	
37	9.4	10.5	11.5	12.4	13.2	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.5	17.9	18.3	18.6	
38	9.3	10.5	11.5	12.4	13.2	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.5	17.9	18.3	18.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.92

OXFORD FABRICS

WAPP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.2	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	24.1	22.8	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	22.7	21.7	21.2	20.9	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	21.7	20.7	20.3	20.1	20.0	20.1	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	21.0	19.8	19.4	19.2	19.3	19.3	19.5	19.6	
20	0.0	0.0	0.0	0.0	0.0	0.0	21.1	19.1	18.5	18.4	18.4	18.5	18.7	18.9	19.1	19.3	
21	0.0	0.0	0.0	0.0	26.0	18.7	17.6	17.4	17.5	17.7	17.9	18.1	18.4	18.6	18.9	19.1	
22	0.0	0.0	0.0	20.3	17.0	16.5	16.5	16.7	16.9	17.2	17.6	17.9	18.2	18.5	18.7	19.0	
23	0.0	0.0	17.7	15.6	15.4	15.5	15.9	16.2	16.6	17.0	17.3	17.7	18.0	18.3	18.6	18.9	
24	0.0	15.8	14.2	14.3	14.6	15.1	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.3	18.6	18.9	
25	14.3	12.9	13.2	13.7	14.2	14.7	15.3	15.8	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	
26	11.6	12.0	12.6	13.3	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.8	18.2	18.5	18.8	
27	10.7	11.5	12.3	13.1	13.8	14.4	15.0	15.6	16.1	16.5	17.0	17.4	17.8	18.1	18.5	18.8	
28	10.3	11.2	12.1	12.9	13.6	14.3	14.9	15.5	16.0	16.5	16.9	17.4	17.7	18.1	18.4	18.7	
29	10.0	11.0	11.9	12.8	13.5	14.2	14.9	15.4	16.0	16.5	16.9	17.3	17.7	18.1	18.4	18.7	
30	9.8	10.9	11.8	12.7	13.5	14.2	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.1	18.4	18.7	
31	9.7	10.8	11.3	12.6	13.4	14.1	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.0	18.4	18.7	
32	9.6	10.7	11.7	12.6	13.4	14.1	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.0	18.4	18.7	
33	9.5	10.7	11.7	12.6	13.4	14.1	14.7	15.3	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7	
34	9.5	10.6	11.6	12.5	13.3	14.1	14.7	15.3	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7	
35	9.5	10.6	11.6	12.5	13.3	14.1	14.7	15.3	15.9	16.4	16.8	17.3	17.7	18.0	18.4	18.7	
36	9.4	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.9	16.4	16.8	17.3	17.6	18.0	18.4	18.7	
37	9.4	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.9	16.4	16.8	17.2	17.6	18.0	18.4	18.7	
38	9.4	10.6	11.6	12.5	13.3	14.0	14.7	15.3	15.8	16.4	16.8	17.2	17.6	18.0	18.4	18.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.93

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	24.7	23.2	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	23.3	22.0	21.4	21.2	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	22.3	21.0	20.5	20.3	20.2	20.3	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	21.7	20.2	19.6	19.4	19.4	19.5	19.6	19.8	
20	0.0	0.0	0.0	0.0	0.0	0.0	22.1	19.5	18.8	18.6	18.6	18.7	18.9	19.0	19.3	19.5	
21	0.0	0.0	0.0	0.0	37.2	19.2	18.0	17.7	17.7	17.8	18.0	18.3	18.5	18.8	19.0	19.3	
22	0.0	0.0	0.0	22.5	17.4	16.7	16.7	16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.9	19.1	
23	0.0	0.0	19.0	15.9	15.6	15.7	16.0	16.4	16.7	17.1	17.5	17.8	18.1	18.5	18.8	19.0	
24	0.0	16.9	14.5	14.5	14.8	15.2	15.6	16.1	16.5	16.9	17.3	17.7	18.0	18.4	18.7	19.0	
25	15.3	13.2	13.3	13.8	14.3	14.9	15.4	15.9	16.4	16.8	17.2	17.6	18.0	18.3	18.6	18.9	
26	11.9	12.1	12.8	13.4	14.0	14.6	15.2	15.8	16.2	16.7	17.1	17.5	17.9	18.3	18.6	18.9	
27	10.8	11.6	12.4	13.2	13.9	14.5	15.1	15.7	16.2	16.6	17.1	17.5	17.9	18.2	18.6	18.9	
28	10.4	11.3	12.2	13.0	13.7	14.4	15.0	15.6	16.1	16.6	17.0	17.5	17.8	18.2	18.5	18.8	
29	10.1	11.1	12.0	12.9	13.6	14.3	15.0	15.5	16.1	16.6	17.0	17.4	17.8	18.2	18.5	18.8	
30	9.9	11.0	11.9	12.8	13.6	14.3	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.8	
31	9.8	10.9	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.1	18.5	18.8	
32	9.7	10.9	11.8	12.7	13.5	14.2	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8	
33	9.6	10.7	11.7	12.6	13.4	14.2	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8	
34	9.6	10.7	11.7	12.6	13.4	14.2	14.3	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8	
35	9.5	10.7	11.7	12.6	13.4	14.1	14.8	15.4	16.0	16.5	16.9	17.4	17.8	18.1	18.5	18.8	
36	9.5	10.6	11.7	12.6	13.4	14.1	14.8	15.4	15.9	16.5	16.9	17.3	17.7	18.1	18.5	18.8	
37	9.5	10.6	11.7	12.6	13.4	14.1	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.1	18.5	18.8	
38	9.4	10.6	11.6	12.6	13.4	14.1	14.8	15.4	15.9	16.4	16.9	17.3	17.7	18.1	18.5	19.8	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.94

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.2
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	25.5	23.6	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	23.9	22.4	21.7	21.4	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	22.9	21.4	20.8	20.5	20.4	20.4	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.9	22.4	20.5	19.9	19.7	19.6	19.7	19.8	19.9	
20	0.0	0.0	0.0	0.0	0.0	0.0	23.4	19.9	19.0	18.8	18.9	19.0	19.2	19.4	19.6		
21	0.0	0.0	0.0	0.0	0.0	19.9	18.3	17.9	17.8	18.0	18.2	18.4	18.6	18.9	19.1	19.4	
22	0.0	0.0	0.0	26.3	17.9	17.0	16.9	17.0	17.2	17.5	17.8	18.1	18.4	18.7	19.0	19.3	
23	0.0	0.0	21.0	16.3	15.8	15.9	16.2	16.5	16.9	17.2	17.6	17.9	18.3	18.6	18.9	19.2	
24	0.0	18.4	14.9	14.7	14.9	15.3	15.8	16.2	16.6	17.0	17.4	17.8	18.1	18.5	18.8	19.1	
25	17.0	13.5	13.5	13.9	14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.7	18.1	18.4	18.7	19.0	
26	12.1	12.3	12.9	13.5	14.2	14.8	15.3	15.9	16.3	16.8	17.2	17.6	18.0	18.4	18.7	19.0	
27	11.0	11.7	12.5	13.3	14.0	14.6	15.2	15.8	16.3	16.7	17.2	17.6	18.0	18.3	18.7	19.0	
28	10.5	11.4	12.3	13.1	13.8	14.5	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.3	18.6	18.9	
29	10.2	11.2	12.1	13.0	13.7	14.4	15.0	15.6	16.2	16.6	17.1	17.5	17.9	18.3	18.6	18.9	
30	10.0	11.0	12.0	12.9	13.6	14.4	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.6	18.9	
31	9.8	10.9	11.9	12.8	13.6	14.3	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.2	18.6	18.9	
32	9.7	10.9	11.9	12.8	13.6	14.3	14.9	15.5	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.9	
33	9.7	10.8	11.8	12.7	13.5	14.2	14.9	15.5	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.9	
34	9.6	10.8	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.6	17.0	17.5	17.9	18.2	18.6	18.9	
35	9.6	10.7	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9	
36	9.5	10.7	11.7	12.6	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9	
37	9.5	10.7	11.7	12.6	13.5	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9	
38	9.5	10.7	11.7	12.6	13.4	14.2	14.9	15.5	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =0.95

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6	26.3	24.1
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4	24.6	22.8	22.0	21.6	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	23.6	21.8	21.1	20.7	20.6	20.6	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3	20.9	20.2	19.9	19.8	19.8	19.9	20.1	
20	0.0	0.0	0.0	0.0	0.0	0.0	25.2	20.4	19.3	19.0	18.9	19.0	19.2	19.3	19.5	19.7	
21	0.0	0.0	0.0	0.0	0.0	20.8	18.6	18.1	18.0	18.1	18.3	18.5	18.8	19.0	19.3	19.5	
22	0.0	0.0	0.0	0.0	18.4	17.3	17.1	17.2	17.4	17.6	17.9	18.2	18.5	18.8	19.1	19.4	
23	0.0	0.0	25.2	16.7	16.0	16.1	16.3	16.6	17.0	17.3	17.7	18.0	18.4	18.7	19.0	19.3	
24	0.0	21.4	15.2	14.9	15.1	15.5	15.9	16.3	16.7	17.1	17.5	17.9	18.3	18.6	18.9	19.2	
25	20.8	13.8	13.7	14.1	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.8	18.2	18.5	18.8	19.1	
26	12.4	12.5	13.0	13.6	14.3	14.9	15.4	16.0	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.1	
27	11.2	11.9	12.6	13.4	14.1	14.7	15.3	15.8	16.4	16.8	17.3	17.7	18.1	18.4	18.8	19.1	
28	10.6	11.5	12.4	13.2	13.9	14.6	15.2	15.8	16.3	16.8	17.2	17.6	18.0	18.4	18.7	19.1	
29	10.3	11.3	12.2	13.0	13.8	14.5	15.1	15.7	16.2	16.7	17.2	17.6	18.0	18.4	18.7	19.0	
30	10.0	11.1	12.1	12.9	13.7	14.4	15.1	15.7	16.2	16.7	17.2	17.6	18.0	18.4	18.7	19.0	
31	9.9	11.0	12.0	12.9	13.7	14.4	15.0	15.6	16.2	16.7	17.1	17.6	18.0	18.3	18.7	19.0	
32	9.8	10.9	11.9	12.8	13.6	14.4	15.0	15.6	16.2	16.7	17.1	17.6	18.0	18.3	18.7	19.0	
33	9.7	10.9	11.9	12.8	13.6	14.3	15.0	15.6	16.1	16.7	17.1	17.6	18.0	18.3	18.7	19.0	
34	9.7	10.8	11.8	12.8	13.6	14.3	15.0	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7	19.0	
35	9.6	10.8	11.8	12.7	13.6	14.3	15.0	15.6	6.1	16.6	17.1	17.5	17.9	18.3	18.7	19.0	
36	9.6	10.8	11.8	12.7	13.5	14.3	14.9	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7	19.0	
37	9.6	10.7	11.8	12.7	13.5	14.3	14.9	15.6	16.1	16.6	17.1	17.5	17.9	18.3	18.7	19.0	
38	9.6	10.7	11.8	12.7	13.5	14.3	14.9	15.5	16.1	16.6	17.1	17.5	17.9	18.3	18.7	19.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.96

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																		
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.97

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.0	26.4	23.7	22.7	22.1	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	22.6	21.7	21.2	21.0	21.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.7	21.9	20.8	20.3	20.2	20.2	20.2	20.3	
20	0.0	0.0	0.0	0.0	0.0	0.0	34.8	21.6	20.0	19.5	19.3	19.4	19.5	19.6	19.8	20.0	
21	0.0	0.0	0.0	0.0	0.0	23.2	19.4	18.6	18.4	18.5	18.6	18.8	19.0	19.3	19.5	19.8	
22	0.0	0.0	0.0	0.0	0.0	19.9	17.9	17.5	17.7	17.9	18.2	18.5	18.8	19.1	19.3	19.6	
23	0.0	0.0	0.0	0.0	0.0	17.8	16.6	16.4	16.6	16.9	17.2	17.6	17.9	18.3	18.6	19.5	
24	0.0	0.0	16.1	15.3	15.4	15.7	16.1	16.5	17.0	17.4	17.8	18.1	18.5	18.8	19.1	19.4	
25	0.0	14.7	14.1	14.4	14.9	15.3	15.8	16.3	16.8	17.2	17.6	18.0	18.4	18.7	19.0	19.4	
26	13.2	12.9	13.3	13.9	14.5	15.1	15.6	16.2	16.6	17.1	17.5	17.9	18.3	18.7	19.0	19.3	
27	11.5	12.1	12.8	13.6	14.2	14.9	15.5	16.0	16.6	17.0	17.5	17.9	18.3	18.6	19.0	19.3	
28	10.8	11.7	12.6	13.4	14.1	14.8	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9	19.3	
29	10.4	11.5	12.4	13.2	14.0	14.7	15.3	15.9	16.4	16.9	17.4	17.8	18.2	18.6	18.9	19.2	
30	10.2	11.3	12.2	13.1	13.9	14.6	15.3	15.8	16.4	16.9	17.4	17.8	18.2	18.6	18.9	19.2	
31	10.0	11.2	12.1	13.0	13.8	14.6	15.2	15.8	16.4	16.9	17.3	17.8	18.2	18.5	18.9	19.2	
32	9.9	11.1	12.1	13.0	13.8	14.5	15.2	15.8	16.3	16.8	17.3	17.8	18.2	18.5	18.9	19.2	
33	9.9	11.0	12.0	12.9	13.8	14.5	15.2	15.8	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
34	9.8	11.0	12.0	12.9	13.7	14.5	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
35	9.7	10.9	12.0	12.9	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
36	9.7	10.9	11.9	12.9	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
37	9.7	10.9	11.9	12.8	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	
38	9.7	10.8	11.9	12.8	13.7	14.4	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.9	19.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.98

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	25.8
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	24.2	23.0	22.4
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	23.2	22.0	21.5	21.2	21.1	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	22.4	21.1	20.6	20.4	20.4	20.4	20.5	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	20.4	19.7	19.5	19.5	19.6	19.8	19.9	20.1	
21	0.0	0.0	0.0	0.0	0.0	25.2	19.9	18.9	18.6	18.6	18.8	19.0	19.2	19.4	19.6	19.9	
22	0.0	0.0	0.0	0.0	20.9	19.2	17.7	17.7	17.9	18.1	18.3	18.6	18.9	19.2	19.4	19.7	
23	0.0	0.0	0.0	18.5	16.9	16.6	16.3	17.1	17.4	17.7	18.1	18.4	18.7	19.0	19.3	19.6	
24	0.0	0.0	16.7	15.6	15.6	15.9	16.3	16.7	17.1	17.5	17.9	18.2	18.6	18.9	19.2	19.5	
25	0.0	15.2	14.4	14.6	15.0	15.5	15.9	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.2	19.5	
26	13.8	13.1	13.5	14.0	14.6	15.2	15.7	16.3	16.7	17.2	17.5	18.0	18.4	18.8	19.1	19.4	
27	11.7	12.3	13.0	13.7	14.3	15.0	15.6	16.1	16.6	17.1	17.6	18.0	18.4	18.7	19.1	19.4	
28	11.0	11.8	12.7	13.5	14.2	14.9	15.5	16.0	16.6	17.1	17.5	17.9	18.3	18.7	19.0	19.4	
29	10.5	11.5	12.5	13.3	14.1	14.8	15.4	16.0	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	
30	10.3	11.4	12.3	13.2	14.0	14.7	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	
31	10.1	11.2	12.2	13.1	13.9	14.6	15.3	15.9	16.5	17.0	17.4	17.9	18.3	18.6	19.0	19.3	
32	10.0	11.1	12.1	13.1	13.9	14.6	15.3	15.9	16.4	16.9	17.4	17.8	18.3	18.6	19.0	19.3	
33	9.9	11.1	12.1	13.0	13.8	14.6	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3	
34	9.8	11.0	12.1	13.0	13.8	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3	
35	9.8	11.0	12.0	12.9	13.8	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3	
36	9.8	10.9	12.0	12.9	13.8	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3	
37	9.7	10.9	12.0	12.9	13.7	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3	
38	9.7	10.9	12.0	12.9	13.7	14.5	15.2	15.8	16.4	16.9	17.4	17.8	18.2	18.6	19.0	19.3	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 0.99

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.2	26.5
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1	24.8	23.4	22.7
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2	23.7	22.3	21.7	21.4	21.3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7	23.1	21.5	20.8	20.6	20.5	20.6	20.7
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	20.8	20.0	19.7	19.7	19.8	19.9	20.1	20.3
21	0.0	0.0	0.0	0.0	0.0	28.7	20.5	19.2	18.9	18.8	18.9	19.1	19.3	19.5	19.8	20.0
22	0.0	0.0	0.0	0.0	22.2	18.6	18.0	17.9	19.0	18.2	18.5	18.7	19.0	19.3	19.6	19.8
23	0.0	0.0	0.0	19.3	17.2	16.9	17.0	17.2	17.5	17.8	18.2	18.5	18.8	19.1	19.4	19.7
24	0.0	0.0	17.4	15.9	15.8	16.0	16.4	16.8	17.2	17.6	18.0	18.3	18.7	19.0	19.3	19.6
25	0.0	15.8	14.6	14.7	15.1	15.6	16.1	16.5	17.0	17.4	17.8	18.2	18.6	18.9	19.3	19.6
26	14.4	13.3	13.6	14.1	14.7	15.3	15.8	16.4	16.8	17.3	17.7	18.1	18.5	18.9	19.2	19.5
27	12.0	12.4	13.1	13.8	14.5	15.1	15.7	16.2	16.7	17.2	17.7	18.1	18.5	18.8	19.2	19.5
28	11.1	11.9	12.8	13.5	14.3	14.8	15.6	16.1	16.7	17.2	17.6	18.0	18.4	18.8	19.1	19.5
29	10.7	11.6	12.6	13.4	14.1	14.8	15.5	16.1	16.6	17.1	17.6	18.0	18.4	18.8	19.1	19.4
30	10.4	11.4	12.4	13.3	14.1	14.8	15.4	16.0	16.6	17.1	17.5	18.0	18.4	18.8	19.1	19.4
31	10.2	11.3	12.3	13.2	14.0	14.7	15.4	16.0	16.5	17.0	17.5	18.0	18.4	18.7	19.1	19.4
32	10.1	11.2	12.2	13.1	13.9	14.7	15.3	16.0	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4
33	10.0	11.1	12.2	13.1	13.9	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4
34	9.9	11.1	12.1	13.0	13.9	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4
35	9.9	11.0	12.1	13.0	13.8	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4
36	9.8	11.0	12.1	13.0	13.8	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.1	19.4
37	9.8	11.0	12.0	13.0	13.8	14.6	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.4
38	9.8	11.0	12.0	13.0	13.8	14.6	15.3	15.9	16.4	17.0	17.5	17.9	18.3	18.7	19.0	19.4

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =1.00

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN RULK DENSITY =1.36

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.3	33.0	79.5	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.8	28.7	27.2	26.4	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	28.3	26.4	25.6	25.3	25.1	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	26.0	24.9	24.5	24.3	24.3	24.4	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.2	26.1	24.3	23.7	23.5	23.5	23.6	23.7	23.9	
24	0.0	0.0	0.0	0.0	0.0	0.0	28.9	24.1	23.0	22.7	22.6	22.7	22.9	23.1	23.3	23.6	
25	0.0	0.0	0.0	0.0	0.0	25.9	22.6	21.9	21.7	21.8	22.0	22.2	22.5	22.8	23.1	23.4	
26	0.0	0.0	0.0	0.0	23.9	21.3	20.8	20.8	21.0	21.2	21.6	21.9	22.2	22.6	22.9	23.2	
27	0.0	0.0	0.0	22.4	20.1	19.7	19.8	20.1	20.5	20.9	21.3	21.7	22.1	22.4	22.8	23.1	
28	0.0	0.0	21.2	18.9	18.6	18.9	19.3	19.7	20.2	20.6	21.1	21.5	21.9	22.3	22.7	23.0	
29	0.0	20.6	17.6	17.5	17.9	18.4	18.9	19.4	20.0	20.5	20.9	21.4	21.8	22.2	22.6	22.9	
30	21.9	16.4	16.3	16.8	17.4	18.0	18.7	19.2	19.8	20.3	20.8	21.3	21.7	22.1	22.5	22.9	
31	15.1	15.0	15.6	16.4	17.1	17.8	18.5	19.1	19.7	20.2	20.7	21.2	21.7	22.1	22.5	22.9	
32	13.6	14.3	15.2	16.1	16.9	17.6	18.3	19.0	19.6	20.2	20.7	21.2	21.6	22.1	22.5	22.8	
33	12.9	13.9	14.9	15.8	16.7	17.5	18.2	18.9	19.5	20.1	20.6	21.1	21.6	22.0	22.4	22.8	
34	12.5	13.6	14.7	15.7	16.6	17.4	18.2	18.8	19.5	20.1	20.6	21.1	21.6	22.0	22.4	22.8	
35	12.2	13.4	14.6	15.6	16.5	17.3	18.1	18.8	19.4	20.0	20.6	21.1	21.5	22.0	22.4	22.8	
36	12.0	13.3	14.4	15.5	16.4	17.3	18.0	18.7	19.4	20.0	20.5	21.1	21.5	22.0	22.4	22.9	
37	11.9	13.2	14.4	15.4	16.4	17.2	18.0	18.7	19.4	20.0	20.5	21.0	21.5	22.0	22.4	22.7	
38	11.8	13.1	14.3	15.4	16.3	17.2	18.0	18.7	19.3	19.9	20.5	21.0	21.5	21.9	22.4	22.7	
39	11.7	13.0	14.2	15.3	16.3	17.2	17.9	18.7	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7	
40	11.6	13.0	14.2	15.3	16.3	17.1	17.9	18.7	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7	
41	11.6	12.9	14.2	15.3	16.2	17.1	17.9	18.6	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7	
42	11.5	12.9	14.1	15.2	16.2	17.1	17.9	18.6	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.48

OXFORD FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.7	32.6	30.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7	32.5	29.3	28.0	27.3
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6	29.0	27.3	26.6	26.2	26.1
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	26.9	25.9	25.5	25.3	25.3	25.4
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5	27.2	25.4	24.7	24.5	24.5	24.6	24.7	24.9
25	0.0	0.0	0.0	0.0	0.0	0.0	30.7	25.3	24.1	23.7	23.6	23.7	23.9	24.1	24.4	24.6
26	0.0	0.0	0.0	0.0	0.0	27.9	23.8	22.9	22.7	22.8	23.0	23.2	23.5	23.8	24.1	24.4
27	0.0	0.0	0.0	0.0	26.0	22.5	21.8	21.9	21.9	22.2	22.5	22.9	23.2	23.6	23.9	24.2
28	0.0	0.0	0.0	24.7	21.3	20.8	20.8	21.1	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.1
29	0.0	0.0	24.1	20.1	19.7	19.9	20.2	20.7	21.1	21.6	22.0	22.5	22.9	23.3	23.7	24.0
30	0.0	25.4	18.9	18.5	18.8	19.3	19.8	20.3	20.9	21.4	21.9	22.3	22.8	23.2	23.6	24.0
31	0.0	17.8	17.3	17.7	18.3	18.9	19.5	20.1	20.7	21.2	21.8	22.2	22.7	23.1	23.5	23.9
32	16.7	16.0	16.5	17.2	17.9	18.6	19.3	20.0	20.6	21.1	21.7	22.2	22.6	23.1	23.5	23.9
33	14.6	15.2	16.0	16.9	17.7	18.4	19.2	19.8	20.5	21.1	21.6	22.1	22.6	23.0	23.4	23.8
34	13.7	14.7	15.7	16.6	17.5	18.3	19.1	19.8	20.4	21.0	21.5	22.1	22.5	23.0	23.4	23.8
35	13.2	14.3	15.4	16.4	17.4	18.2	19.0	19.7	20.3	20.9	21.5	22.0	22.5	23.0	23.4	23.8
36	12.9	14.1	15.3	16.3	17.2	18.1	18.9	19.6	20.3	20.9	21.5	22.0	22.5	22.9	23.4	23.8
37	12.6	13.9	15.1	16.2	17.2	18.0	18.8	19.6	20.3	20.9	21.4	22.0	22.5	22.9	23.3	23.7
38	12.4	13.8	15.0	16.1	17.1	18.0	18.8	19.5	20.2	20.9	21.4	22.0	22.4	22.9	23.3	23.7
39	12.3	13.7	15.0	16.1	17.1	18.0	18.8	19.5	20.2	20.9	21.4	21.9	22.4	22.9	23.3	23.7
40	12.2	13.6	14.9	16.0	17.0	17.9	18.7	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.3	23.7
41	12.2	13.6	14.8	16.0	17.0	17.9	18.7	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.3	23.7
42	12.1	13.5	14.8	15.9	17.0	17.9	18.7	19.5	20.1	20.8	21.4	21.9	22.4	22.9	23.3	23.7

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.50

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.2
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.3	34.1	30.8
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5	30.2	28.5	27.8
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.8	30.1	27.9	27.0	26.6	26.4	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	27.7	26.4	25.8	25.6	25.6	25.6	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.0	28.3	26.0	25.1	24.8	24.8	24.8	25.0	25.1
25	0.0	0.0	0.0	0.0	0.0	0.0	35.1	26.2	24.6	24.0	23.9	24.0	24.1	24.3	24.6	24.8
26	0.0	0.0	0.0	0.0	0.0	30.7	24.6	23.4	23.0	23.1	23.2	23.4	23.7	24.0	24.3	24.6
27	0.0	0.0	0.0	0.0	28.5	23.2	22.2	22.1	22.2	22.5	22.8	23.1	23.4	23.8	24.1	24.4
28	0.0	0.0	0.0	27.3	21.9	21.1	21.1	21.3	21.7	22.1	22.4	22.8	23.2	23.6	24.0	24.3
29	0.0	0.0	27.8	20.7	20.0	20.1	20.4	20.9	21.3	21.8	22.2	22.7	23.1	23.5	23.8	24.2
30	0.0	43.9	19.6	18.9	19.1	19.5	20.0	20.5	21.1	21.6	22.1	22.5	23.0	23.4	23.8	24.1
31	0.0	18.5	17.7	18.0	18.5	19.1	19.7	20.3	20.9	21.4	21.9	22.4	22.9	23.3	23.7	24.1
32	17.8	16.4	16.8	17.4	18.1	18.8	19.5	20.1	20.7	21.3	21.8	22.3	22.8	23.2	23.6	24.0
33	15.0	15.4	16.2	17.0	17.8	18.6	19.3	20.0	20.6	21.2	21.8	22.3	22.7	23.2	23.6	24.0
34	14.0	14.9	15.8	16.8	17.6	18.5	19.2	19.9	20.6	21.1	21.7	22.2	22.7	23.2	23.6	24.0
35	13.4	14.5	15.6	16.6	17.5	18.3	19.1	19.8	20.5	21.1	21.7	22.2	22.7	23.1	23.5	23.9
36	13.0	14.3	15.4	16.4	17.4	18.3	19.0	19.8	20.4	21.1	21.6	22.1	22.6	23.1	23.5	23.9
37	12.8	14.1	15.3	16.3	17.3	18.2	19.0	19.7	20.4	21.0	21.6	22.1	22.6	23.1	23.5	23.9
38	12.6	13.9	15.2	16.2	17.2	18.1	18.9	19.7	20.4	21.0	21.6	22.1	22.6	23.1	23.5	23.9
39	12.4	13.8	15.1	16.2	17.2	18.1	18.9	19.7	20.3	21.0	21.5	22.1	22.6	23.1	23.5	23.9
40	12.3	13.7	15.0	16.1	17.1	18.0	18.9	19.6	20.3	20.9	21.5	22.1	22.6	23.0	23.5	23.9
41	12.3	13.7	15.0	16.1	17.1	18.0	18.8	19.6	20.3	20.9	21.5	22.1	22.6	23.0	23.5	23.9
42	12.2	13.6	14.9	16.1	17.1	18.0	18.8	19.6	20.3	20.9	21.5	22.1	22.5	23.0	23.5	23.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 1.77

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	34.6	32.3
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.5	35.2	31.9	30.5	29.8	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.1	32.1	30.0	29.2	28.8	28.6	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.1	30.0	28.6	28.1	27.8	27.9	27.8	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3	28.4	27.4	27.1	27.0	27.0	27.2	27.3	
27	0.0	0.0	0.0	0.0	0.0	0.0	49.2	29.3	27.1	26.3	26.1	26.2	26.3	26.5	26.7	27.0
28	0.0	0.0	0.0	0.0	0.0	43.4	27.7	25.8	25.3	25.2	25.4	25.6	25.9	26.1	26.5	26.8
29	0.0	0.0	0.0	0.0	45.6	26.4	24.7	24.3	24.3	24.6	24.9	25.2	25.5	25.9	26.2	26.6
30	0.0	0.0	0.0	0.0	25.0	23.6	23.3	23.4	23.7	24.1	24.5	24.9	25.3	25.7	26.1	26.4
31	0.0	0.0	0.0	24.4	22.5	22.3	22.5	22.9	23.3	23.8	24.2	24.7	25.1	25.5	26.0	26.3
32	0.0	0.0	23.8	21.4	21.2	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.4	25.9	26.3
33	0.0	24.4	20.3	20.1	20.4	21.0	21.6	22.2	22.8	23.4	23.9	24.4	24.9	25.3	25.8	26.2
34	50.9	19.2	18.9	19.3	19.9	20.6	21.3	22.0	22.6	23.2	23.8	24.3	24.8	25.3	25.7	26.1
35	19.3	17.5	18.0	18.9	19.6	20.4	21.1	21.8	22.5	23.1	23.7	24.2	24.8	25.2	25.7	26.1
36	15.1	15.7	17.5	18.5	19.3	20.2	21.0	21.7	22.4	23.0	23.6	24.2	24.7	25.2	25.6	26.1
37	15.1	15.1	17.2	18.2	19.2	20.0	20.9	21.6	22.3	23.0	23.6	24.1	24.7	25.1	25.6	26.0
38	14.6	15.8	16.3	18.0	19.0	19.9	20.8	21.5	22.3	22.9	23.5	24.1	24.6	25.1	25.6	26.0
39	14.2	15.5	15.7	17.9	18.9	19.8	20.7	21.5	22.2	22.9	23.5	24.1	24.6	25.1	25.6	26.0
40	13.9	15.3	16.6	17.8	18.9	19.8	20.6	21.4	22.2	22.8	23.5	24.0	24.6	25.1	25.5	26.0
41	13.7	15.2	16.5	17.7	18.7	19.7	20.6	21.4	22.1	22.8	23.4	24.0	24.6	25.1	25.5	26.0
42	13.6	15.1	16.4	17.6	18.7	19.7	20.5	21.4	22.1	22.8	23.4	24.0	24.5	25.0	25.5	26.0
43	13.4	15.0	16.3	17.5	18.6	19.6	20.5	21.3	22.1	22.8	23.4	24.0	24.5	25.0	25.5	25.9
44	13.3	14.9	16.3	17.5	18.6	19.6	20.5	21.3	22.1	22.7	23.4	24.0	24.5	25.0	25.5	25.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.00

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.36

OXFORD FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.9	39.1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.8	40.0	35.5
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2	37.5	35.3	34.3	33.8
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4	35.6	34.0	33.2	32.9	32.8
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.0	34.1	32.8	32.2	32.0	32.0	32.1
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.3	32.9	31.7	31.3	31.2	31.2	31.4	31.6
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9	31.7	30.7	30.4	30.3	30.5	30.7	30.9	31.2
32	0.0	0.0	0.0	0.0	0.0	0.0	34.0	30.6	29.7	29.4	29.5	29.7	30.0	30.3	30.6	31.0
33	0.0	0.0	0.0	0.0	0.0	33.5	29.6	28.7	29.5	28.6	28.9	29.3	29.6	30.0	30.4	30.8
34	0.0	0.0	0.0	0.0	33.8	28.7	27.7	27.6	27.8	28.1	28.5	28.9	29.4	29.8	30.2	30.6
35	0.0	0.0	0.0	36.9	27.8	26.7	26.6	26.8	27.2	27.7	28.2	28.7	29.1	29.6	30.1	30.5
36	0.0	0.0	0.0	27.2	25.6	25.5	25.9	26.3	26.9	27.4	27.9	28.5	29.0	29.5	29.9	30.4
37	0.0	0.0	27.2	24.6	24.4	24.8	25.3	25.9	26.6	27.2	27.8	28.3	28.9	29.4	29.9	30.3
38	0.0	29.7	23.6	23.3	23.7	24.3	25.0	25.7	26.3	27.0	27.6	28.2	28.8	29.3	29.8	30.2
39	0.0	22.9	22.0	22.4	23.1	23.9	24.7	25.4	26.2	26.9	27.5	28.1	28.7	29.2	29.7	30.2
40	23.1	20.8	21.1	21.9	22.8	23.6	24.5	25.3	26.0	26.7	27.4	28.0	28.6	29.1	29.7	30.1
41	19.6	19.7	20.5	21.5	22.5	23.4	24.3	25.1	25.9	26.6	27.3	28.0	28.5	29.1	29.6	30.1
42	18.1	19.0	20.1	21.2	22.2	23.2	24.2	25.0	25.8	26.6	27.3	27.9	28.5	29.1	29.5	30.1
43	17.3	18.5	19.8	21.0	22.1	23.1	24.1	24.9	25.8	26.5	27.2	27.9	28.5	29.0	29.6	30.1
44	16.7	18.2	19.5	20.8	21.9	23.0	24.0	24.9	25.7	26.5	27.2	27.8	28.4	29.0	29.5	30.0
45	16.4	17.9	19.3	20.6	21.8	22.9	23.9	24.8	25.6	26.4	27.1	27.8	28.4	29.0	29.5	30.0
46	15.1	17.7	19.2	20.5	21.7	22.8	23.8	24.8	25.6	26.4	27.1	27.8	28.4	29.0	29.5	30.0
47	15.9	17.6	19.1	20.4	21.7	22.8	23.8	24.7	25.6	26.3	27.1	27.7	28.4	28.9	29.5	30.0
48	15.7	17.4	19.0	20.4	21.6	22.7	23.7	24.7	25.5	26.3	27.0	27.7	28.3	28.9	29.5	30.0

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.50

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.8	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.2	42.3	38.9	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.4	39.5	37.2	36.1	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	37.6	35.8	34.9	34.5		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.0	39.8	36.0	34.5	33.9	33.6	33.6		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.0	37.9	34.6	33.5	33.0	32.8	32.8	32.9	
31	0.0	0.0	0.0	0.0	0.0	0.0	63.5	36.4	33.5	32.4	32.0	32.0	32.0	32.1	32.2	32.5	
32	0.0	0.0	0.0	0.0	0.0	0.0117.1	35.3	32.4	31.4	31.1	31.2	31.3	31.3	31.5	31.8	32.1	
33	0.0	0.0	0.0	0.0	0.0	0.0	34.5	31.4	30.5	30.2	30.3	30.5	30.8	31.2	31.5	31.9	
34	0.0	0.0	0.0	0.0	0.0	34.2	30.4	29.5	29.3	29.5	29.7	30.1	30.5	30.9	31.3	31.7	
35	0.0	0.0	0.0	0.0	34.7	29.5	28.5	28.4	28.6	29.9	29.3	29.8	30.2	30.7	31.1	31.5	
36	0.0	0.0	0.0	38.7	28.7	27.5	27.4	27.6	28.0	28.5	29.0	29.5	30.0	30.5	30.9	31.4	
37	0.0	0.0	0.0	28.2	26.5	26.3	26.6	27.1	27.7	28.2	28.8	29.3	29.8	30.3	30.8	31.3	
38	0.0	0.0	28.5	25.5	25.2	25.6	26.1	26.7	27.4	28.0	28.6	29.2	29.7	30.2	30.7	31.2	
39	0.0	32.8	24.6	24.1	24.4	25.0	25.7	26.4	27.1	27.8	28.4	29.0	29.6	30.1	30.7	31.1	
40	0.0	24.0	22.9	23.2	23.9	24.7	25.4	26.2	27.0	27.7	28.3	28.9	29.5	30.1	30.6	31.1	
41	25.0	21.6	21.9	22.6	23.5	24.4	25.2	26.0	26.8	27.5	28.2	28.9	29.5	30.0	30.5	31.0	
42	20.6	20.4	21.2	22.2	23.2	24.1	25.0	25.9	26.7	27.4	28.1	28.8	29.4	30.0	30.5	31.0	
43	18.9	19.7	20.8	21.9	22.9	24.0	24.9	25.8	26.6	27.4	28.1	28.7	29.3	29.9	30.5	31.0	
44	18.0	19.2	20.4	21.6	22.8	23.8	24.8	25.7	26.5	27.3	28.0	28.7	29.3	29.9	30.4	30.9	
45	17.4	18.6	20.2	21.4	22.6	23.7	24.7	25.6	26.5	27.2	28.0	28.6	29.3	29.9	30.4	30.9	
46	17.0	18.5	20.0	21.3	22.5	23.6	24.6	25.5	26.4	27.2	27.9	28.6	29.2	29.8	30.4	30.9	
47	16.6	18.3	19.8	21.2	22.4	23.5	24.6	25.5	26.4	27.2	27.9	28.6	29.2	29.8	30.4	30.9	
48	16.4	18.1	19.7	21.1	22.3	23.5	24.5	25.4	26.3	27.1	27.9	28.6	29.2	29.8	30.3	30.9	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 2.75

OXFORD FARRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.4	43.7	40.1	38.5	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	41.3	38.5	37.3	36.7	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	39.5	37.2	36.2	35.7	35.6	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.6	38.1	36.0	35.2	34.9	34.8	34.8	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.2	36.8	35.0	34.2	34.0	34.0	34.1	34.3	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.7	35.7	33.9	33.3	33.1	33.2	33.3	33.6	33.9	
34	0.0	0.0	0.0	0.0	0.0	0.0	43.4	34.8	33.0	32.4	32.3	32.4	32.6	32.9	33.2	33.6	
35	0.0	0.0	0.0	0.0	0.0	47.8	34.1	32.0	31.4	31.4	31.6	31.8	32.2	32.6	32.9	33.3	
36	0.0	0.0	0.0	0.0	0.0	33.6	31.1	30.5	30.5	30.7	31.0	31.4	31.9	32.3	32.7	33.1	
37	0.0	0.0	0.0	0.0	33.9	30.2	29.5	29.5	29.8	30.2	30.7	31.1	31.6	32.1	32.6	33.0	
38	0.0	0.0	0.0	35.6	29.4	28.5	28.5	28.8	29.3	29.8	30.4	30.9	31.4	31.9	32.4	32.9	
39	0.0	0.0	59.7	28.9	27.5	27.4	27.8	28.4	28.9	29.5	30.1	30.7	31.3	31.8	32.3	32.8	
40	0.0	0.0	29.0	26.5	26.3	26.7	27.3	28.0	28.7	29.3	30.0	30.6	31.1	31.7	32.2	32.7	
41	0.0	32.4	25.5	25.1	25.6	26.2	27.0	27.7	28.4	29.1	29.8	30.4	31.0	31.6	32.1	32.6	
42	0.0	25.0	23.9	24.3	25.0	25.8	26.7	27.5	28.3	29.0	29.7	30.3	31.0	31.5	32.1	32.6	
43	26.3	22.7	22.9	23.7	24.6	25.6	26.5	27.3	28.1	28.9	29.6	30.3	30.9	31.5	32.0	32.5	
44	21.7	21.5	22.3	23.3	24.3	25.3	26.3	27.2	28.0	28.8	29.5	30.2	30.8	31.4	32.0	32.5	
45	19.9	20.7	21.8	23.0	24.1	25.1	26.1	27.1	27.9	28.7	29.4	30.1	30.8	31.4	31.9	32.5	
46	19.0	20.2	21.5	22.7	23.9	25.0	26.0	27.0	27.8	28.6	29.4	30.1	30.7	31.3	31.9	32.5	
47	18.3	19.8	21.2	22.5	23.7	24.9	25.9	26.9	27.8	28.6	29.3	30.0	30.7	31.3	31.9	32.4	
48	17.9	19.5	21.0	22.4	23.6	24.8	25.8	26.8	27.7	28.5	29.3	30.0	30.7	31.3	31.9	32.4	
49	17.5	19.2	20.8	22.2	23.5	24.7	25.8	26.8	27.7	28.5	29.3	30.0	30.6	31.3	31.8	32.4	
50	17.3	19.1	20.7	22.1	23.4	24.6	25.7	26.7	27.6	28.5	29.2	30.0	30.6	31.3	31.8	32.4	
51	17.1	18.9	20.6	22.0	23.4	24.6	25.7	26.7	27.6	28.4	29.2	29.9	30.6	31.2	31.9	32.4	
52	16.9	18.8	20.5	22.0	23.3	24.5	25.6	26.6	27.6	28.4	29.2	29.9	30.6	31.2	31.8	32.4	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =2.95

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0101	1.1	48.4	43.4	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.5	45.3	41.5	39.9	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.9	43.0	40.0	38.7	38.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.2	41.3	38.7	37.6	37.1	36.9		
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.1	39.9	37.6	36.6	36.2	36.1	36.1		
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2	38.8	36.5	35.7	35.3	35.3	35.4	35.6		
34	0.0	0.0	0.0	0.0	0.0	0.0	47.8	37.8	35.5	34.7	34.5	34.5	34.6	34.9	35.1		
35	0.0	0.0	0.0	0.0	0.0	51.8	37.0	34.6	33.8	33.6	33.7	33.9	34.2	34.5	34.8		
36	0.0	0.0	0.0	0.0	0.0	36.6	33.7	32.9	32.7	32.8	33.1	33.4	33.8	34.2	34.6		
37	0.0	0.0	0.0	0.0	0.0	36.6	32.8	31.9	31.8	32.0	32.3	32.7	33.1	33.5	34.0	34.4	
38	0.0	0.0	0.0	0.0	38.0	32.1	31.0	30.8	31.0	31.4	31.9	32.3	32.8	33.3	33.8	34.2	
39	0.0	0.0	0.0	46.1	31.6	30.0	29.8	30.1	30.5	31.0	31.5	32.1	32.6	33.1	33.6	34.1	
40	0.0	0.0	0.0	31.6	29.1	28.8	29.1	29.5	30.1	30.7	31.3	31.9	32.4	33.0	33.5	34.0	
41	0.0	0.0	33.4	28.2	27.7	28.0	28.5	29.1	29.8	30.5	31.1	31.7	32.3	32.9	33.4	33.9	
42	0.0	0.0	27.7	26.6	26.8	27.4	28.1	28.8	29.6	30.3	30.9	31.6	32.2	32.8	33.3	33.8	
43	0.0	28.1	25.5	25.2	26.2	26.9	27.8	28.6	29.4	30.1	30.8	31.5	32.1	32.7	33.3	33.8	
44	40.0	24.5	24.2	24.8	25.7	26.6	27.5	28.4	29.2	30.0	30.7	31.4	32.0	32.6	33.2	33.7	
45	24.3	22.9	23.4	24.3	25.4	26.4	27.3	28.2	29.1	29.9	30.6	31.3	32.0	32.6	33.2	33.7	
46	21.6	21.9	22.9	24.0	25.1	26.1	27.1	28.1	29.0	29.8	30.5	31.2	31.9	32.5	33.1	33.7	
47	20.2	21.2	22.4	23.7	24.9	26.0	27.0	28.0	28.9	29.7	30.5	31.2	31.9	32.5	33.1	33.6	
48	19.4	20.7	22.1	23.4	24.7	25.8	26.9	27.9	28.8	29.6	30.4	31.1	31.8	32.5	33.0	33.6	
49	18.9	20.4	21.9	23.3	24.5	25.7	26.8	27.8	28.7	29.6	30.4	31.1	31.8	32.4	33.0	33.6	
50	18.4	20.1	21.7	23.1	24.4	25.6	26.7	27.7	28.7	29.5	30.3	31.1	31.8	32.4	33.0	33.6	
51	18.1	19.3	21.5	23.0	24.3	25.6	26.7	27.7	28.6	29.5	30.3	31.0	31.7	32.3	33.0	33.6	
52	17.9	19.7	21.4	22.9	24.3	25.5	26.6	27.7	28.6	29.5	30.3	31.0	31.7	32.4	33.0	33.6	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.25

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.8	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.1	48.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.8	45.7	43.1	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.6	43.9	41.8	40.7	
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5	42.5	40.6	39.7	39.3	
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9	41.3	39.5	38.8	38.4	38.3	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.9	40.2	38.5	37.8	37.6	37.6	37.6	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.4	39.2	37.6	36.9	36.7	36.8	36.9	37.2	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.6	38.4	36.7	36.0	35.9	36.0	36.2	36.5	36.8	
37	0.0	0.0	0.0	0.0	0.0	0.0	46.4	37.7	35.8	35.1	35.0	35.2	35.4	35.8	36.1	36.5	
38	0.0	0.0	0.0	0.0	0.0	54.5	37.3	34.9	34.2	34.2	34.3	34.6	35.0	35.4	35.8	36.2	
39	0.0	0.0	0.0	0.0	0.0	37.3	34.1	33.3	33.2	33.4	33.8	34.2	34.7	35.1	35.6	36.1	
40	0.0	0.0	0.0	0.0	38.6	33.4	32.4	32.3	32.5	32.9	33.4	33.9	34.4	34.9	35.4	35.9	
41	0.0	0.0	0.0	45.6	32.9	31.4	31.3	31.5	32.0	32.5	33.1	33.7	34.2	34.8	35.3	35.8	
42	0.0	0.0	0.0	33.1	30.5	30.2	30.5	31.0	31.6	32.2	32.8	33.5	34.1	34.6	35.2	35.7	
43	0.0	0.0	35.4	29.7	29.1	29.4	29.9	30.6	31.3	32.0	32.6	33.3	33.9	34.5	35.1	35.6	
44	0.0	0.0	29.3	28.0	28.2	28.8	29.5	30.3	31.0	31.8	32.5	33.2	33.8	34.4	35.0	35.5	
45	0.0	30.4	26.9	26.9	27.5	28.3	29.2	30.0	30.3	31.6	32.4	33.0	33.7	34.3	34.9	35.5	
46	0.0	26.2	25.6	26.2	27.1	28.0	28.9	29.8	30.7	31.5	32.2	33.0	33.6	34.3	34.9	35.4	
47	26.7	24.3	24.7	25.7	26.7	27.7	28.7	29.7	30.5	31.4	32.1	32.9	33.6	34.2	34.8	35.4	
48	23.2	23.2	24.1	25.3	26.4	27.5	28.5	29.5	30.4	31.3	32.1	32.8	33.5	34.2	34.8	35.3	
49	21.6	22.4	23.7	24.9	26.2	27.3	28.4	29.4	30.3	31.2	32.0	32.8	33.5	34.1	34.7	35.3	
50	20.6	21.9	23.3	24.7	26.0	27.2	28.3	29.3	30.3	31.1	31.9	32.7	33.4	34.1	34.7	35.3	
51	20.0	21.5	23.1	24.5	25.8	27.1	28.2	29.2	30.2	31.1	31.9	32.7	33.4	34.0	34.7	35.3	
52	19.5	21.2	22.8	24.3	25.7	27.0	28.1	29.2	30.1	31.0	31.9	32.6	33.4	34.0	34.6	35.2	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY =3.75

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA															
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.4	47.4	44.6	43.3	42.7
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5	46.3	43.5	42.3	41.3	41.3	41.6
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	45.4	42.6	41.4	40.9	40.8	40.8	40.8
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.9	44.8	41.7	40.5	40.1	39.9	40.0	40.2	40.2
38	0.0	0.0	0.0	0.0	0.0	0.0	72.4	44.4	40.9	39.7	39.2	39.1	39.2	39.5	39.7	39.7
39	0.0	0.0	0.0	0.0	0.0	0.0	44.6	40.2	38.8	38.3	38.3	38.5	38.7	38.7	39.0	39.4
40	0.0	0.0	0.0	0.0	0.0	46.0	39.6	37.9	37.5	37.4	37.6	37.9	38.3	38.7	39.1	39.1
41	0.0	0.0	0.0	0.0	0.0	51.2	39.3	37.1	36.6	36.5	36.8	37.1	37.5	38.0	38.4	38.9
42	0.0	0.0	0.0	0.0	0.0	39.5	36.4	35.6	35.6	35.9	36.3	36.7	37.2	37.7	38.2	38.7
43	0.0	0.0	0.0	0.0	41.1	35.8	34.7	34.6	34.9	35.4	35.9	36.4	37.0	37.5	38.1	38.6
44	0.0	0.0	0.0	50.6	35.5	33.8	33.6	33.9	34.4	35.0	35.6	36.2	36.8	37.3	37.9	38.4
45	0.0	0.0	0.0	36.1	33.0	32.6	32.3	33.4	34.0	34.6	35.3	36.0	36.6	37.2	37.8	38.3
46	0.0	0.0	40.8	32.4	31.5	31.7	32.2	32.9	33.7	34.4	35.1	35.8	36.5	37.1	37.7	38.3
47	0.0	0.0	32.5	30.4	30.5	31.1	31.8	32.6	33.4	34.2	34.9	35.7	36.3	37.0	37.6	38.2
48	0.0	35.9	29.6	29.2	29.8	30.6	31.4	32.3	33.2	34.0	34.8	35.5	36.2	36.9	37.5	38.1
49	0.0	29.4	29.0	28.4	29.2	30.2	31.2	32.1	33.0	33.9	34.7	35.4	36.2	36.8	37.5	38.1
50	33.0	26.0	27.0	27.8	28.8	29.9	30.9	31.9	32.9	33.7	34.6	35.4	36.1	36.8	37.4	38.0
51	26.4	25.5	26.2	27.3	28.5	29.7	30.7	31.8	32.7	33.6	34.5	35.3	36.0	36.7	37.4	38.0
52	24.1	24.5	25.7	27.0	28.2	29.5	30.6	31.7	32.6	33.6	34.4	35.2	36.0	36.7	37.3	37.9
53	22.8	23.9	25.3	26.7	28.0	29.3	30.5	31.5	32.6	33.5	34.4	35.2	35.9	36.6	37.3	37.9
54	21.9	23.4	25.0	26.5	27.9	29.2	30.3	31.5	32.5	33.4	34.3	35.1	35.9	36.6	37.3	37.9
55	21.3	23.0	24.7	26.3	27.7	29.0	30.3	31.4	32.4	33.4	34.3	35.1	35.9	36.6	37.2	37.9
56	20.9	22.8	24.5	26.1	27.6	28.9	30.2	31.3	32.4	33.3	34.2	35.0	35.8	36.5	37.2	37.8
57	20.5	22.5	24.3	26.0	27.5	28.9	30.1	31.3	32.3	33.3	34.2	35.0	35.8	36.5	37.2	37.8
58	20.3	22.3	24.2	25.9	27.4	28.8	30.0	31.2	32.3	33.2	34.2	35.0	35.8	36.5	37.2	37.8

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 3.75

OXFORD FABRICS

WARP
COVER
FACTOR
(K1)

BETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.4	47.4	44.6	43.3	42.7
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5	46.3	43.5	42.3	41.8	41.6
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	45.4	42.6	41.4	40.9	40.8	40.8
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.9	44.8	41.7	40.5	40.1	39.9	40.0	40.2
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.4	44.4	40.9	39.7	39.2	39.1	39.2	39.5	39.7
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.6	40.2	38.8	38.3	38.3	38.5	38.7	39.0	39.4
40	0.0	0.0	0.0	0.0	0.0	0.0	46.0	39.6	37.9	37.5	37.4	37.6	37.9	38.3	38.7	39.1
41	0.0	0.0	0.0	0.0	0.0	51.2	39.3	37.1	36.6	36.5	35.8	37.1	37.5	38.0	38.4	38.9
42	0.0	0.0	0.0	0.0	0.0	39.5	36.4	35.6	35.6	35.9	36.3	36.7	37.2	37.7	38.2	38.7
43	0.0	0.0	0.0	0.0	41.1	35.8	34.7	34.6	34.9	35.4	35.9	36.4	37.0	37.5	38.1	38.6
44	0.0	0.0	0.0	50.6	35.5	33.8	33.6	33.9	34.4	35.0	35.6	36.2	36.8	37.3	37.9	38.4
45	0.0	0.0	0.0	36.1	33.0	32.6	32.8	33.4	34.0	34.6	35.3	36.0	36.6	37.2	37.8	38.3
46	0.0	0.0	40.8	32.4	31.5	31.7	32.2	32.9	33.7	34.4	35.1	35.9	36.5	37.1	37.7	38.3
47	0.0	0.0	32.5	30.4	30.5	31.1	31.8	22.6	33.4	34.2	34.9	35.7	36.3	37.0	37.6	38.2
48	0.0	35.9	29.6	29.2	29.8	30.6	31.4	32.3	33.2	34.0	34.8	35.5	36.2	36.9	37.5	38.1
49	0.0	29.4	28.0	28.4	29.2	30.2	31.2	32.1	33.0	33.9	34.7	35.4	36.2	36.8	37.5	38.1
50	33.0	26.9	27.0	27.8	28.8	29.9	30.9	31.9	32.9	33.7	34.6	35.4	36.1	36.8	37.4	38.0
51	26.4	25.5	26.2	27.3	28.5	29.7	30.7	31.8	32.7	33.6	34.5	35.3	36.0	36.7	37.4	38.0
52	24.1	24.5	25.7	27.0	28.2	29.5	30.6	31.7	32.6	33.6	34.4	35.2	36.0	36.7	37.3	37.9
53	22.8	23.9	25.3	26.7	28.0	29.3	30.5	31.5	32.6	33.5	34.4	35.2	35.9	36.6	37.3	37.9
54	21.9	23.4	25.0	26.5	27.9	29.2	30.3	31.5	32.5	33.4	34.3	35.1	35.9	36.6	37.3	37.9
55	21.3	23.0	24.7	26.3	27.7	29.0	30.3	31.4	32.4	33.4	34.3	35.1	35.9	36.6	37.2	37.9
56	20.9	22.8	24.5	26.1	27.6	28.9	30.2	31.3	32.4	33.3	34.2	35.0	35.8	36.5	37.2	37.8
57	20.5	22.5	24.3	26.0	27.5	28.9	30.1	31.3	32.3	33.3	34.2	35.0	35.8	36.5	37.2	37.8
58	20.3	22.3	24.2	25.9	27.4	28.8	30.0	31.2	32.3	33.2	34.2	35.0	35.8	36.5	37.2	37.9

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 4.00

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.2	51.0	47.5	45.9	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.8	49.7	46.4	44.9	44.2	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.9	48.7	45.4	44.0	43.3	43.1	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.5	47.9	44.5	43.1	42.5	42.2	42.2	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.4	47.5	43.7	42.2	41.6	41.4	41.5	41.6	
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.6	42.9	41.4	40.8	40.6	40.7	40.9	41.1	
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.7	42.4	40.5	39.9	39.8	39.9	40.1	40.4	40.8	
41	0.0	0.0	0.0	0.0	0.0	52.5	42.0	39.8	39.0	38.9	39.1	39.3	39.7	40.1	40.5		
42	0.0	0.0	0.0	0.0	0.0	78.7	42.1	39.0	38.2	38.0	38.2	38.5	38.9	39.3	39.8	40.2	
43	0.0	0.0	0.0	0.0	0.0	43.3	38.5	37.3	37.1	37.3	37.6	38.1	38.6	39.1	39.6	40.0	
44	0.0	0.0	0.0	0.0	48.2	38.1	36.4	36.1	36.3	36.7	37.2	37.7	38.3	38.6	39.4	39.9	
45	0.0	0.0	0.0	0.0	38.5	35.7	35.1	35.3	35.7	36.3	36.9	37.5	38.1	38.6	39.2	39.8	
46	0.0	0.0	0.0	40.9	35.1	34.2	34.2	34.7	35.3	35.9	36.6	37.2	37.9	38.5	39.1	39.6	
47	0.0	0.0	44.7	35.0	33.2	33.1	33.6	34.2	34.9	35.6	36.4	37.0	37.7	38.4	39.0	39.5	
48	0.0	0.0	36.5	32.4	32.0	32.4	33.1	33.8	34.6	35.4	36.2	36.9	37.6	38.2	38.9	39.5	
49	0.0	67.6	31.9	30.8	31.1	31.8	32.7	33.5	34.4	35.2	36.0	36.8	37.5	38.2	38.8	39.4	
50	0.0	33.2	29.8	29.8	30.5	31.4	32.4	33.3	34.2	35.1	35.9	36.7	37.4	38.1	38.7	39.3	
51	0.0	29.1	28.4	29.1	30.0	31.1	32.1	33.1	34.0	34.9	35.8	36.6	37.3	38.0	38.7	39.3	
52	40.6	27.2	27.5	28.5	29.7	30.8	31.9	32.9	33.9	34.8	35.7	36.5	37.2	38.0	38.6	39.2	
53	26.3	26.0	26.9	28.1	29.4	30.6	31.7	32.8	33.8	34.7	35.6	36.4	37.2	37.9	38.6	39.2	
54	24.4	25.1	26.4	27.8	29.1	30.4	31.6	32.7	33.7	34.6	35.5	36.4	37.1	37.9	38.5	39.2	
55	23.3	24.5	26.0	27.5	28.9	30.2	31.4	32.6	33.6	34.6	35.5	36.3	37.1	37.8	38.5	39.1	
56	22.5	24.1	25.7	27.3	28.7	30.1	31.3	32.5	33.5	34.5	35.4	36.3	37.1	37.8	38.5	39.1	
57	21.9	23.7	25.5	27.1	28.6	30.0	31.2	32.4	33.5	34.5	35.4	36.2	37.0	37.8	38.5	39.1	
58	21.5	23.5	25.3	26.9	28.5	29.9	31.2	32.3	33.4	34.4	35.3	36.2	37.0	37.7	38.4	39.1	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND BETA

YARN BULK DENSITY = 4.13

OXFORD FABRICS

WARP COVER FACTOR (K1)	BETA																
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.8	50.5	48.0	
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3	49.3	46.9	45.8	
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3	48.2	45.9	44.9	44.4	
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.0	47.3	45.0	44.0	43.5	43.4	
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5	46.6	44.1	43.1	42.7	42.6	42.6	
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9	46.1	43.3	42.3	41.9	41.8	41.9	42.1	
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.4	45.9	42.6	41.4	41.0	41.0	41.1	41.6	41.7	
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.3	42.0	40.6	40.2	40.1	40.3	40.6	40.9	41.3	
42	0.0	0.0	0.0	0.0	0.0	0.0	48.0	41.5	39.8	39.3	39.3	39.5	39.8	40.2	40.6	41.0	
43	0.0	0.0	0.0	0.0	0.0	54.6	41.3	39.0	38.4	38.4	38.6	39.0	39.4	39.9	40.3	40.8	
44	0.0	0.0	0.0	0.0	0.0	41.9	38.3	37.5	37.4	37.7	38.1	38.6	39.1	39.6	40.1	40.6	
45	0.0	0.0	0.0	0.0	44.5	37.9	36.6	36.4	36.7	37.2	37.7	38.3	38.8	39.4	40.0	40.5	
46	0.0	0.0	0.0	66.8	37.9	35.8	35.4	35.7	36.2	36.7	37.4	38.0	38.6	39.2	39.8	40.4	
47	0.0	0.0	0.0	39.4	35.0	34.4	34.6	35.1	35.7	36.4	37.1	37.8	38.4	39.1	39.7	40.3	
48	0.0	0.0	50.4	34.7	33.4	33.5	34.0	34.7	35.4	36.2	36.9	37.6	38.3	38.9	39.6	40.2	
49	0.0	0.0	35.7	32.5	32.3	32.8	33.5	34.3	35.1	35.9	36.7	37.5	38.2	38.8	39.5	40.1	
50	0.0	46.1	31.9	31.1	31.5	32.2	33.1	34.0	34.9	35.8	36.6	37.3	38.1	38.8	39.4	40.0	
51	0.0	32.6	29.9	30.1	30.9	31.8	32.8	33.8	34.7	35.6	36.4	37.2	38.0	38.7	39.3	40.0	
52	54.0	29.2	28.7	29.4	30.4	31.5	32.6	33.6	34.6	35.5	36.3	37.1	37.9	38.6	39.3	39.9	
53	30.0	27.4	27.9	28.9	30.1	31.2	32.4	33.4	34.4	35.4	36.2	37.1	37.8	38.6	39.2	39.9	
54	26.4	26.2	27.3	28.5	29.8	31.0	32.2	33.3	34.3	35.3	36.2	37.0	37.8	38.5	39.2	39.8	
55	24.6	25.5	26.4	28.2	29.5	30.8	32.0	33.2	34.2	35.2	36.1	36.9	37.7	38.5	39.2	39.8	
56	23.5	24.9	26.4	27.9	29.3	30.7	31.9	33.1	34.1	35.1	36.0	36.9	37.7	38.4	39.1	39.8	
57	22.8	24.4	26.1	27.7	29.2	30.6	31.8	33.0	34.1	35.1	36.0	36.8	37.6	38.4	39.1	39.8	
58	22.2	24.1	25.9	27.5	29.0	30.4	31.7	32.9	34.0	35.0	35.9	36.8	37.6	38.4	39.1	39.7	

MAXIMUM FILLING COVER FACTORS (K2) IN TERMS OF WARP COVER FACTOR AND RETA

YARN BULK DENSITY = 4.60

OXFORD FABRICS

WARP
COVER
FACTOR
(K1)

RETA

	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0148	1.62.2
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0107	4.60.1	54.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0169	9.57.6	51.7	49.4	48.2
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2	50.9	48.5	46.8
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	50.1	47.6	46.5	45.8
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.3	49.7	46.8	45.7	45.1
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.5	49.5	46.1	44.9	44.4
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.8	45.5	44.1	43.5	43.4
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.1	41.8	41.7	42.6	42.7
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.4	37.4	38.0	38.1	38.5
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.7	33.3	33.9	34.0	34.3
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.0	29.3	29.8	30.0	30.3
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.3	25.3	25.8	26.0	26.3
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.6	21.3	21.8	22.0	22.3
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.9	17.3	17.8	18.0	18.3
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.2	13.3	13.8	14.0	14.3
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	117.5	9.3	9.8	10.0	10.3
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	122.8	5.3	5.8	6.0	6.3
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.1	1.3	1.8	2.0	2.3
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.4	0.3	0.8	1.0	1.3
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.7	0.3	0.8	1.0	1.3
55	46.3	30.5	30.2	31.0	32.1	33.2	34.3	35.4	36.5	37.4	38.3	39.2	40.0	40.7	41.5	42.1
56	31.3	28.8	29.4	30.5	31.7	33.0	34.1	35.3	36.3	37.3	38.2	39.1	39.9	40.7	41.4	42.1
57	27.8	27.7	28.8	30.1	31.4	32.7	34.0	35.1	36.2	37.2	38.2	39.0	39.9	40.6	41.4	42.0
58	26.1	26.9	28.3	29.8	31.2	32.6	33.8	35.0	36.1	37.1	38.1	39.0	39.8	40.6	41.3	42.0

REQUEST TO WRITE EOF ON UNIT ASSIGNED AS SYSINI, SYSOUI, OR SYSPP1 HAS BEEN IGNORED.